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The OIL WEEKLY

A Journal for Oil Producers and Field Men

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HOUSTON PITTSBURGH TULSA
LOS ANGELES WICHITA FALLS CHICAGO

Vol. 26. No. 13 SEPTEMBER 23, 1922 10 Cents Per Copy

STUDY THESE THREADS

The Hughes, flat crested thread, Tool Joint makes up TIGHT, in slightly less than four turns

Hughes Tool Joints mean a saving of time going into and coming out of the hole.

Correct Design—Better Steel—Advance Heat Treating Methods—Accurate Manufacture—Rigid Inspection, go with Hughes Tool Joints.

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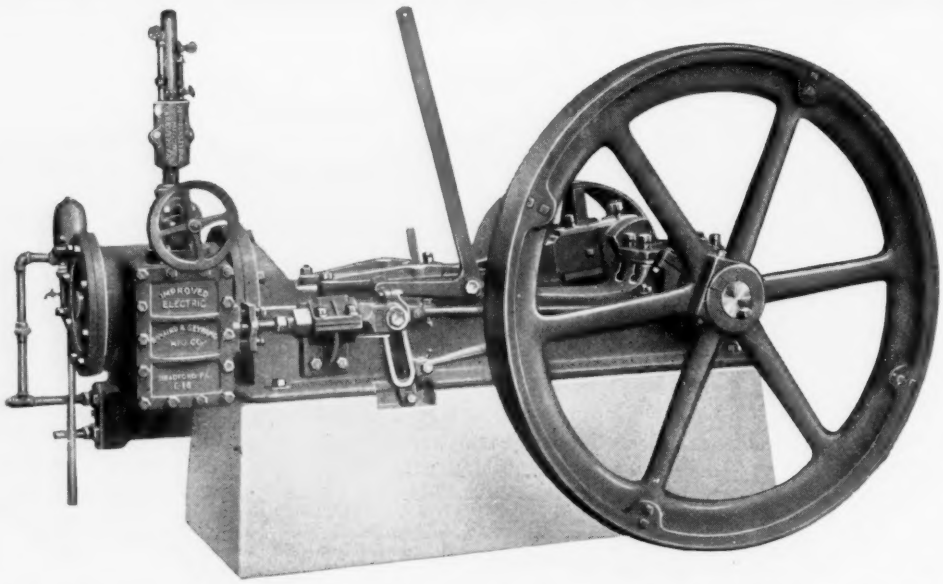

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Improved "Electric" Drilling Engine

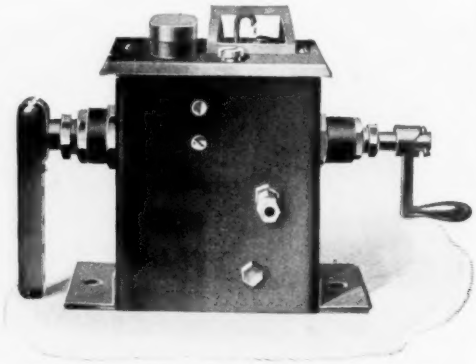
The B. & S. Improved Electric Drilling Engine was designed to meet the increasing demand for a heavy drilling engine to withstand the severe strain to which this class of machinery is often subjected. Realizing that inexperienced men are frequently called upon to operate them, the keynote of the engine has been simplicity, using the least number of parts possible, with a consequent reduction of repair bills.

The Improved Engine, in most cases, will develope over 50 per cent more horsepower than actually rated. Back of the engine is the experience of over half a century of building with the knowledge of what is required for oil field work.

Madison-Kipp Lubricators

are particularly well adapted for the oil fields. The dependability of the Kipp Valveless principle and the sturdy design and construction combine to add years of satisfactory service to engines and machines.

A single feed lubricator on your drilling engine will eliminate many shut downs and save oil. It saves packings, rings and valves, and easily pays its cost in a short time. After you install a Madison-Kipp Lubricator on your drilling engine, lubrication is entirely automatic. The oiler starts and stops with the engine and needs no further adjustments after the setting at time of installation. We can furnish complete fittings for each installation. Lubricators with any number of feeds in stock for stationary oil and gas engines.



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Immediate *Shipment*

We offer subject to prior sale, at below market prices f. o. b. Pittsburgh or erected.

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4— 5000 Barrel Tanks
2— 2500 Barrel Tanks
5— 2000 Barrel Tanks
3— 600 Barrel Tanks
4— 500 Barrel Tanks

Also the following refinery equipment, all new and ready to ship.

4—500 Bbl. Run Down Tanks—Water Top

Size: 20'0" Diam. x 11'0" high.
Material: Shell and bottom, 3/16" plates.
Roof: Water top type, 3/16" plates, supported on I-beam girder and beams.
Equipment: Shell and roof manheads, outside ladder.
Riveting: Vertical seams DRL; All others SRL.

1—Five Compartment Condenser Box

Size: 30'0" x 50'0" x 7'0" deep, divided into 5 compartments 10'0" wide.
Material: 1/4" plate throughout.
Description: Stiffened throughout with Channels and Angles, and has Tie Bars across the top. Has a 1' radius through along one side of top.

3—Open Top Tanks

Size: 6'0" Diam. x 5'0" high.
Material: 3/16" plates throughout.
Riveting: All seams SRL, shop riveted.

5—Fire Stills

Size: 10'0" Diam. x 40'0" long in shell.
Material: Bottom shell of 1 plate ½" still bottom steel, 100" wide; two side lug plates of 7/16" boiler flange steel, 76" wide; seven crown sheets of 3/8" tank steel running girthways.
Heads: ½" boiler flange steel, dished and flanged.
Dome: 36" Diam. x 36" high of ⅜" boiler flange steel with 7/16" flanged head.
Equipment: Two 20" Neck Manheads; One 20" Yoke Manhead; 16 Heavy Cast Iron Lugs; one 4" Tar Plug complete and numerous flange connections.

3—600 Bbl. Bleacher Tanks

Size: 30'0" Diam. x 5'0" high.
Material: Shell and bottom, 3/16" plates.
Roof: Self supporting dome type, 1/8" plates.
Equipment: 20" Shell Manhead; 6 Sunlight doors in roof, 3'x4'.
Riveting: Vertical seams DRL; All others, SRL.

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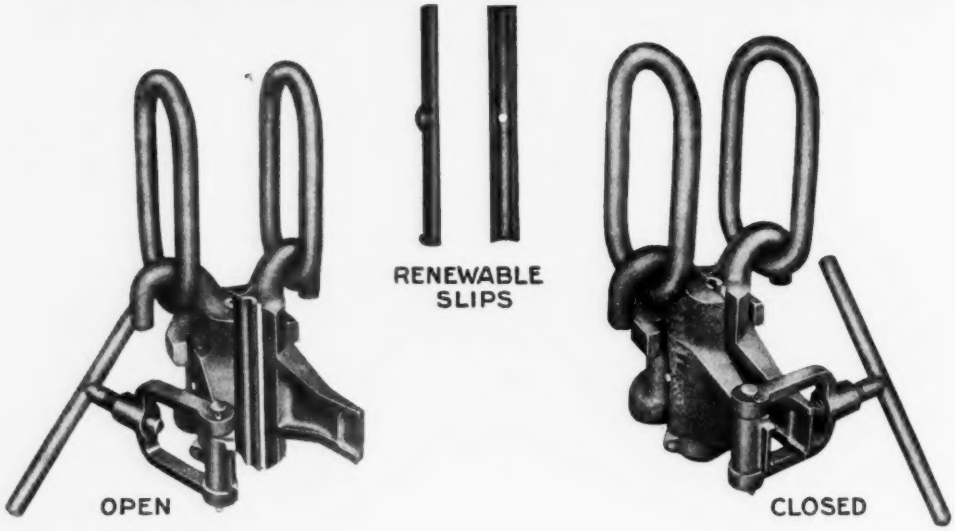

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Standard Rigs **Timbers and lumber for all purposes**

Save money and time by placing your business with us

Robertson-MacDonald Lumber Company

215 Humble Oil & Refining Bldg. **HOUSTON, TEXAS**

Yards at Goose Creek, West Columbia, Pierce Junction, Orange

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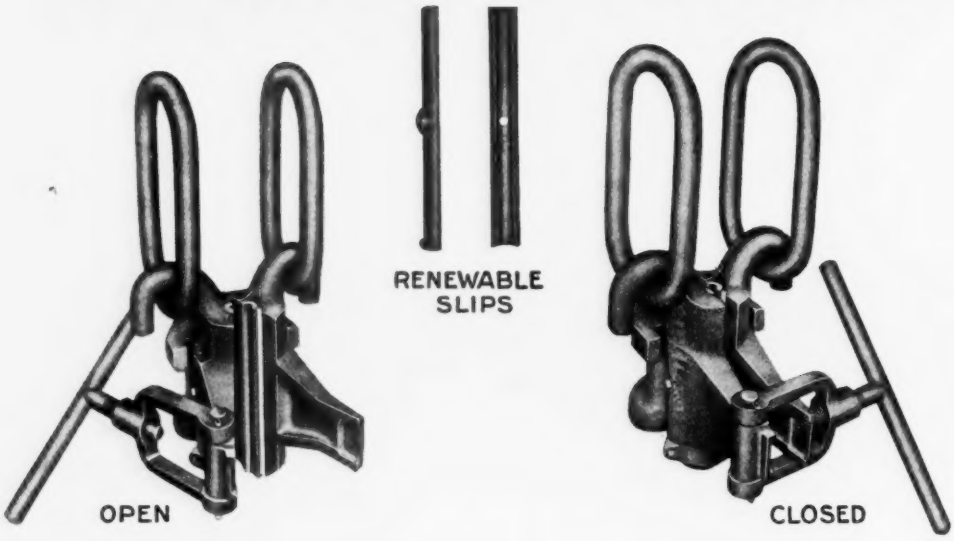

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"They are worth a million dollars a pair to the man in the rig!"

This is the exact statement made by a driller using 6-inch Wilson Spring-Latch Rotary Tongs. His statement was free and voluntary and made with a smile. This—without exception—is the opinion rendered by every man who has come in contact with these wonderful tongs.

They are the FASTEST—SAFEST—STRONGEST tongs ever designed. Their durability is most remarkable, and the cost of operation—nothing!

A trial will convince you of their overwhelming superiority. See your supply company.

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IN THIS WEEK'S ISSUE

POLAND GIVING CONCESSIONS.

The Polish government is ready to make concessions on about half a million acres of land believed to be oil bearing. Terms, etc., Page 74.

HOW MUCH PRODUCED IN LA.?

The value of the oil produced in Louisiana during the second quarter of the year, by individual companies, and parishes, was—look on page 11.

METHODS OF RECOVERING OIL.

Some very interesting facts are to be found in an article by a practical field engineer, dealing with the various methods of cleaning out wells, restoring production, and maintaining production. It begins on Page 13.

MESOPOTAMIA!

An article on Mesopotamia, illustrated by a map in two colors, gives some hitherto unpublished facts on the Garden of Eden of the oil business. Page 34.

KOSSE WELL FREAKY

The Humphreys well at Kosse isn't acting like a real oil well at all. Off again, on again, and now off again. Page 36.

NEW PIPE LINE FOR WYOMING

Bolton Creek field will have new pipe line, result of merger between two companies. Page 44.

GROSS PRODUCTION OF WYOMING

For the first time, the report showing the gross production of Wyoming, by companies, for 1921, is printed. See Page 47.

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KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

SINCLAIR TO BUILD LINE

A little matter of $25,000,000 is being raised to take care of the pipe line program of Sinclair. The line to Whiting will be doubled, and the Gulf Coast will be connected up with the Mid-Continent line. Page 17.

GAS FROM TRINITY?

Bellevue well in Louisiana is arousing much interest. Page 48.

NEW LINE TO CUMBERLAND CO.

Best news in a century is the way our correspondent characterized the report on a pipe line to be built into Cumberland County, Ky. Page 51.

UP TO THEIR OLD TRICKS

Bandits in Tampico section are now very active, as open season on payrolls started a short time ago. Last week bandits killed a man and got $21,000. Page 56.

VALUE OF STATISTICS

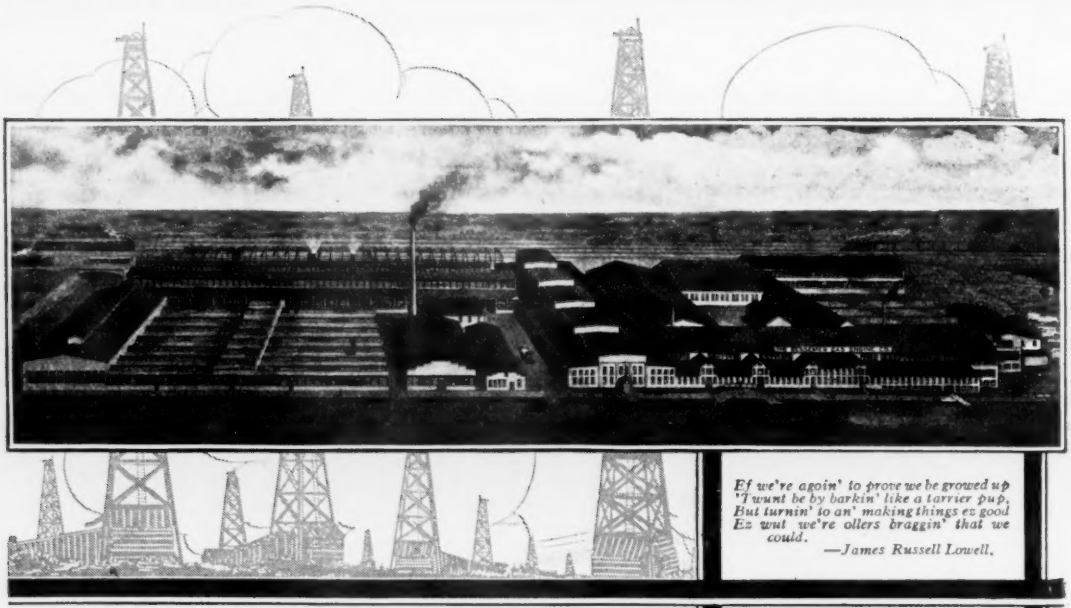
Time was when statistics dealt only with the past. An article on page 10 tells how statistics of the future are the statistics that are really valuable to business. Page 10-11.

POSSIBILITIES IN SOUTHWESTERN TEXAS

The U. S. Geological Survey says that the country in southwestern Texas, along the Rio Grande, has possibilities from an oil producing standpoint. Page 15.

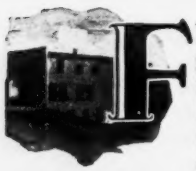
IN ROUMANIAN FIELDS

The Trascontinental has become interested in Roumanian properties. Page 90.



Ef we're agoin' to prove we be growed up
'Twunt be by barkin' like a tarrier pup,
But turnin' to an' making things ez good
Ez wut we're ollers braggin' that we could.
—James Russell Lowell.

America's Greatest Gas Engine Plant—The Bessemer



FROM the little factory in 1900 to the greatest gas engine plant in America in 1922. Such growth could not have been made without the enduring confidence of the many patrons of this company.

Machinery that meets every oil field need is produced in the Bessemer plant. Gas engines, oil engines, compressors, pumps, and pumping powers—each is made completely in this plant under large scale production methods.

Without complete supervision of every detail—without the best possible designs and quality of materials,—without our experience gained in over 24,000 installations of Bessemer equipment—we could not hold the good will of our patrons—our most valuable asset.

We will be glad to mail catalogs for any oil field need.

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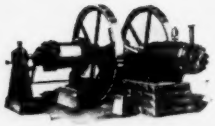
18 York Street, Grove City, Pa.
Service Branches in Principal Production Centers



Bessemer Oil Field Engine
Famous in deep oil territory the world over. The original two-cycle engine with crosshead construction.

Bessemer Type O. D. Oil Engine
Operates on either oil or gas to meet any oil field need. Enclosed crank case and other mechanical features.

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Standard equipment in the gasoline-from-gas-industry. Combining engine and compressor in one unit, saves space, belting and foundation costs.

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THE OIL WEEKLY

An International Oil Publication for Oil Producers

ESTABLISHED 1916

MEMBER AUDIT BUREAU OF CIRCULATIONS

VOL. XXVI—NO. 13

No Material Drop Yet

WE will have to differ with the Mid-Continent Committee on shut down and storage, on its statement issued September 11, in which it says that there was a drop in production for the week ending September 9, amounting to 20,000 barrels a day.

So far as The OIL WEEKLY is able to determine there was no appreciable drop in production, and we feel sure that the committee's statistician must have made a typographical error in his figures to have arrived at a decline of 20,000 barrels a day.

According to the best figures obtainable by The OIL WEEKLY—and right here we wish to say that we lay no claim to infallibility, but do endeavor to get as accurate a check as possible—Oklahoma produced 420,600 barrels a day during the week ending Sept. 9, as compared with 421,900 barrels for the week previous, a drop of 1300 barrels a day. But in Kansas production climbed from 88,300 barrels daily to 91,000, an increase of 2700 barrels a day. North Texas saw an increase of more than 1000 barrels; West Texas saw a gain of more than 500 barrels, and Louisiana dropped something more than 2000 barrels; Arkansas was off about 1000 barrels.

Checking it up, we find that the net loss in Kansas, Oklahoma, Louisiana, Arkansas and the light oil fields of Texas, amounted to approximately 500 barrels a day. The United States as a whole showed a loss of less than 1100 barrels a day.

It is true that there has been curtailment of drilling to some extent in Oklahoma and the Mid-Continent generally, but the peculiar thing about it is that the curtailment is principally where small wells would be expected, and the drilling has been principally on acreage which might be expected to bring in such wells as would tend to hold up production and hold down the price.

If production is cut it must be cut by drilling curtailment. You can't say, "Let George do it," and get the production down.

Have you ever stopped to figure where we'll all stand by next February or January if production is not cut? The only section of the United States that will not be so blue that indigo will appear pale in comparison, will be the Gulf Coast country, where competition with Mexican crude on a fuel oil basis has saved the day.

The producer of light oil—the oil that ought to be higher than any other oil under ordinary conditions—will be getting better acquainted with his banker than he ever thought he would.

We do not want to be calamity howlers, and have no idea of becoming confirmed pessimists—we want the producers to look the thing in the face and then act—every damned one of them from the Prairie Oil & Gas Company down to the fellow who is drilling a shallow well on the side.

Not Too Wise To Learn

The oil industry is fortunate in having a number of reliable aggressive trade publications, and the oil man, be he executive or field man, who doesn't take advantage of that fact and keep posted on what is going on, is sadly lacking in ambition.

The reliable trade journal is a combination of newspaper and correspondence school course in one.

Sometimes we run across a man who is too busy to read, but most of such men that we have heard about are busy dodging the sheriff, which accounts for their lack of time.

Not only is the news of the industry given in understandable English by the many trade journals serving the oil business, but articles by experts along certain lines may be found in most oil journals, setting forth technical information that may come in for valuable use when you least expect it.

Many of the major companies urge their men to subscribe to a good oil journal and keep up with the industry. This is good advice, and in some instances the companies go even further and assist their employees to subscribe or subscribe for them.

It is a wise company that seeks to have its men better informed,—ignorance is a costly item on the pay roll.

The OIL WEEKLY wants only such subscribers as are engaged in the oil producing or pipe line business, or subbranches of the producing and pipe line business. It has no desire for investor circulaton, and it reserves the right and will exercise the right to reject subscriptions coming from persons whose only interest in the oil industry is through the purchase of oil stock.

R. L. DUDLEY, Publisher.

Statistics as an Aid to Business Management

Modern organizations can use accumulative information in charting out their courses

By Philip Brasher,
Assistant to the President Tide Water Oil Company

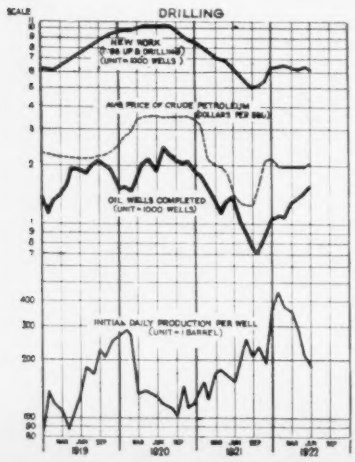
The present big business organization, controlling thousands of employes, with its arms flung practically around the entire world, is to the organization of even fifty years ago as the modern fifty-thousand-ton steamship, with all its complicated conveniences and luxuries is to the caravel of Columbus's time.

It is related that when Columbus started on his historic voyage, he had no definite idea of where he was going and that after sailing for days and days he had no knowledge of how far he had gone. The winds and tides had played with him as they would with any chip floating on the surface of the ocean, and at last it became so evident to all on board that there was no definite knowledge of destination that the seamen mutinied and tried to turn the ship for home.

But just then it was discovered that a number of branches of trees and other litter were floating in the water near the ship, indicating the proximity of land. This so heartened the sailors that they were willing to continue for a short time and within the next day or two land was actually discovered.

The business organization of olden times had just about as much help in guiding it as Columbus had in his caravel. It is to be presumed Columbus had a compass, but beyond that we do not know of anything which would have helped him on in his journey.

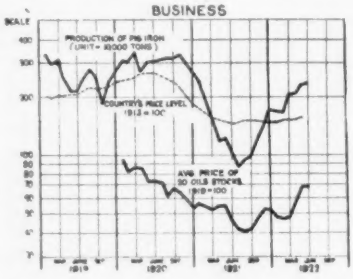
The modern steamship, however, is equipped not only with a compass but with a barometer which fortells changes in the weather, with the log which tells how far and how fast the ship has traveled, with the wireless which keeps the ship in constant touch with other ships and the surrounding shores, with submarine signals which enable the ship in darkness and fog to signal other ships, and more recently has been devised a method of an electric submarine cable which the ship as it enters the port follows directly up the harbor and which will, in future, practically eliminate danger of collision or grounding in fog.



The business organization under the old order could get along with the simple compass of accounting because of the fact that conditions at that time developed few economic problems of any magnitude, but the modern business organization must have all the help it can get in order to navigate safely. It imperatively needs the business barometer, the business log, the business wireless and the business submarine electrical signals which are furnished it through modern statistics.

Old-fashioned statistics dealt with the past. Modern statistics are concerned with the future, with the shaping of the course ahead.

Statistics are a tool for making accumulative experience available for action and for anticipating conditions that lie ahead. The success of any business enterprise depends to a large degree upon the length of experience its management can bring to bear upon its problems and upon the development of its plans. Modern business has realized that executive duties and responsibilities have developed to a point where no individual can possibly be expected to have them concentrated in one personality. Therefore the more progressive organizations have decided that the only way out of the difficulty is to establish a department of statistics and planning whose special job it is to enlarge the experience that can be applied to the operating problems of the Company and to extend the distance to which plans can be accurately made ahead.



The Tide Water Oil Company with foresight and provision established its Statistical Department about a year and a half ago, and this Department is providing operating and planning facts, which the executives are using in assisting them to look to the future and provide intelligently for the growth of the company.

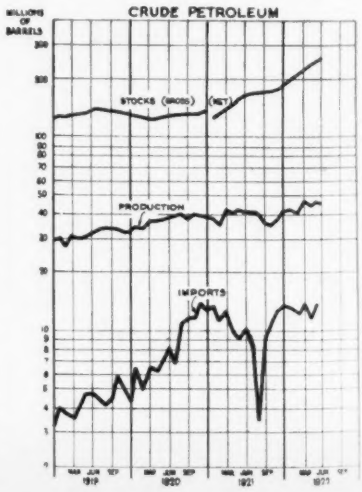
The Department is paying close attention to external conditions in both the oil industry and in the business world in general. Special emphasis is placed upon the business cycle in line with the efforts on the part of all modern arganizations to guide their actions in conference with anticipated changes in both the up and down movements in business. While of course the oil business is not always directly affected in proportion with general business, there can be no doubt of the effect of the trend of general business on the oil business and that trend must always be taken into consideration.

Through its work on the Business Cycle, the Department was in a position during the summer of 1921 to advise the Company of a revival in business activity that started in the Fall of that year and has continued in increasing measure to the present time.

If you will examine the chart shown here, "Trend and Forcast of Business Activity," you will note that the solid line indicates the business activity up to the date at which the prediction was made, and the dotted line indicates the prediction of the Statistical Department as to what the business would be in the future. It is interesting to note that so far this dotted line has so slosely approximated the actual business conditions that no appreciable change can be made in its location on the chart. In other words, more than six months ago it was possible to visualize the future trend of general conditions very closely indeed.

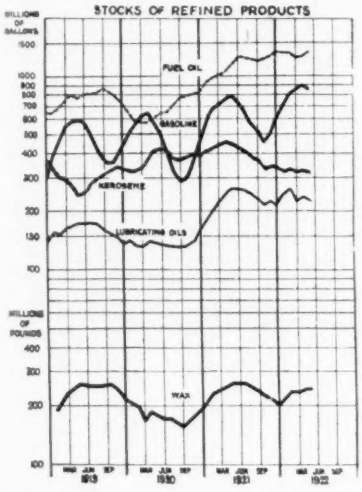
If you will refer to the series of charts shown under the headings of "Business," "Drilling," etc., which are designed to show conditions throughout the United States in those particular fields of activity, you will get a very complete bird's-eye view of the oil industry.

It would seem that if the Investigating Committee of the Senate had examined such a chart as shown under the heading of "Prices of Refined Products" and noted how closely these lines had approximated in general the price of crude petroleum, with a realization of the fact that gasoline is the one commodity for which there has been a ready sale and that it has been necessary to put enormous quantities of all the other products into storage, it would have been unnecessary to spend



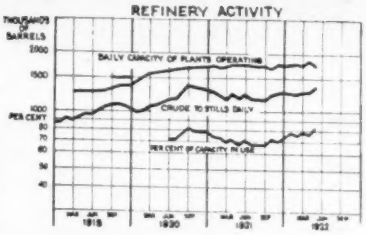
much time or money on an investigation of the oil industry.

As an example of planning based upon detailed statistics, the marketing program of the Sales Corporation may be mentioned. The most thorough investigation of the market for motor oil, grease and gasoline ever undertaken in this country was made during the last three months of 1921. This investigation measured the total 1922 requirements for automotive lubricating oil in every county in the whole United States. It involved over 250,000 calculations and three months' work by a staff of ten, but the results attained gave us the means for setting quotas so accur-



ately that the performance for the first seven months of the year varies from the quotas thus established by a very small percentage. The placing of a marketing program upon a quota basis establishes our Sales Corporation in the forefront of companies employing modern sales methods.

An ingenious method of graphic control for the executives of the Sales Corporation has also been worked out by the Statistical Department whereby the progress of sales, down to the smallest territory, can be quickly and accurately gauged, thus giving the Management an invaluable tool

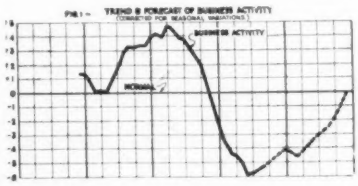


for guiding the operations of the company. This makes it possible to figure the profit and loss on the entire operations for a year in advance on the basis of certain accomplishments, and it is a simple matter to change the calculations if the basic accomplishments vary from the schedule established.

An equally careful survey of the market for industrial oils is now being made, as a result of which industrial oil quotas may be accurately set and the volume of industrial oil sales increased at a reduced cost of reaching the market.

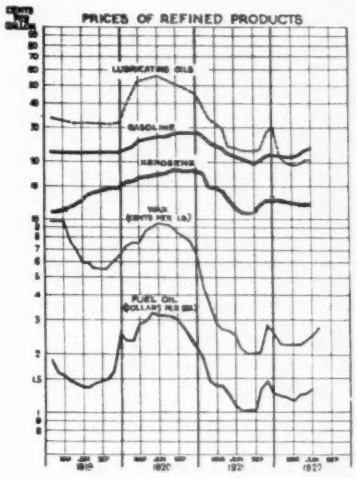
One of the outgrowths of these investigations is that the methods of calculating the cost of selling have been revised and placed upon a scientific basis. The number of accounting reports has been cut down and an effective plan worked out for assisting the salesman to reach a higher percentage of the business than has been possible in the past. One of the particularly agreeable features of this work has been the cooperation extended by the Sales Corporation and the interest displayed by the executives in availing themselves of this most recent aid to efficient management.

The Department has recently completed a series of graphic reports for coordinating the progress of sales with the refinery operations in order that the two activities



may be kept closely in step. These reports compare the production schedule with the actual production. Then they go on to compare all the other elements involved to show the ratio between the actual manufacturing operations and sales in such a way that one can take in the significant features indicating the general situation in reference to any one product at almost a glance, and plan for the future with all the facts of the past immediately before them.

This work also extends to providing information on the trends of commodity prices to the end that purchases and sales may be made in the most advantageous markets, that inventory loss in the terms



of rapid changes in price may be minimized. This department is not a mere fact-gathering organization getting together huge bundles of nicely typewritten sheets to be deposited in the archives. It is engaged in the broad problems of management, in providing facts and methods of increasing the operating efficiency of the Company and adding to the accuracy with which plans can be laid ahead.

It is the purpose of the Department to make itself an indispensable adjunct to the all-important work of planning more effectively than our competitors.

Fuel Oil and Crude Prices

IF the petroleum business would study the law of averages a little, and would figure up the average price of fuel oil over a period of several years, and therefrom determine what would be a fair price—a price of some stability, the industry might find it easier to dispose of more of its fuel oil.

Like it or not, the oil business has used some very unbusinesslike methods in handling fuel oil. No company can be expected to change overnight to the consumption of a product that has had the wide variation of prices that fuel oil has had.

And the manufacturers of fuel oil themselves are so thoroughly sold on the idea that the price may go sky high that it is very difficult to get any of them to guarantee a price over a long period—that is unless they happened to be stocked up with a quantity of low gravity Mexican crude. And even that situation is getting to be less and less frequent. Now a lot of them are holding the bag.

It is the fuel oil situation in California that has disrupted the market there. If there were a half way market for fuel oil the crude price would be better. In the Mid-Continent the price of fuel oil from one week to another is a debatable proposition—with the refiner always looking for a repetition of the magic market of 1919 when fuel oil went sky high.

If the users of fuel oil could be guaranteed a fair price, and a steady price, at which the refiner could be expected to realize a profit—the increase in the use of fuel oil would be marvelous.

As we see it, fuel oil has sold itself in spite of marketing conditions. Its superior value is too apparent even to allow the danger of a highly fluctuating market to kill its sale.

Louisiana Production Report, Second Quarter

Gross production tax returns show oil valued at $13,516,833 produced during 3 months

BATON ROUGE, LA., Sept. 15.—Crude oil produced in Louisiana during the second quarter of 1922, including the three months of April, May and June, had a total value of $13,516,833, as shown by sworn statements made to the state for taxation purposes. While the reports filed do not show the total amount of oil produced a fair estimate can be reached from the gross value on which the per cent gross production tax is paid.

The following report gives the name and address of the companies and individuals who produced oil in the state during the three months period, together with the parish in which the oil was produced and the total value of the crude.

The Gulf Refining Company of Louisiana led the list in the total value of oil produced in the quarter with a total of $1,733,947 reported. The Louisiana Oil and Refining Corporation is next in line with the gross production valued at $1,127,427.

Claiborne parish was by far the leading parish in so far as the value of the oil is concerned with the total value of all oil produced reaching $9,375,847. Caddo Parish was the only other district to go over the million dollar mark.

Appearing for the first time in print, we herewith present to our readers the quarterly gross production tax report for the state of Louisiana. The report which is similar to those of Texas and Oklahoma will in the future be a regular feature of The OIL WEEKLY.—Editor.

The table below shows the various parishes with the value of oil produced:

Parish—	Gross value of oil produced
Claiborne	$9,375,847
Caddo	1,522,656
Calcasieu	864,660
Bossier	780,568
De Soto	507,669
Red River	406,284
Arcadia	54,342
Webster	53,164
Moorehouse	22,420
Ouachita	7,888
Terrebonne	7,372
Iberia	5,512
St. Martins	4,257
Sabine	4,194
Total	$13,516,833

Name of Company, Address	Parish	Value of Oil Prod.
Atlas Oil Co., P. O. Box 6, Shreveport	Ouachita	$4,887
Atlas Oil Co., Shreveport	Bossier	4,497
Atlas Oil Co., Shreveport	Terrebonne	2,552
Acherman Oil Co., Milwaukee, Wis.,	Caddo	2,739
Ark. Nat. Invincible Oil Co., Shreveport	Claiborne	159,255
Amerada Pet. Corp., Houston, Texas	Claiborne	371,970
Amerada Pet. Corp., Houston, Texas	De Soto	3,801
Arkansas Nat. Gas Co., Pittsburgh, Pa.	De Soto	1,804
Arkansas Nat. Gas Co., Pittsburgh, Pa.	Bossier	8,382
Arkansas Nat. Gas Co., Pittsburgh, Pa.	Claiborne	21,169
Arkansas Nat. Gas Co., Pittsburgh, Pa.	Caddo	7,552
Arkansas Fuel Company	Caddo	1,353
Andors Oil Corp., Wilkes Barre, Pa.	Claiborne	14,643
Adamson Oil Corp., Shreveport	Caddo	2,691
Autrey, R. L., Houston, Texas	Bossier	53,595
Bayou Pierre Pet. Co., 1008 Burch Bldg., Dallas, Texas	Caddo	677
Butler McMurray Dlrg. Co., 1019 Sheridan Ave., Shreveport	Caddo	1,645
Bio Gas Company	Caddo	1,729
Block Oil Company	Caddo	2,055
Belchic & Laskey, Sinclair Bldg., Shreveport	Caddo	1,054
Belchic & Laskey	Claiborne	2,157
Belchic & Laskey	Claiborne	14,643
Butler McMurray Drilling Co., 1019 Sheridan Ave., Sherevport	De Soto	2,660
Bradford Oil Corporation	Red River	8,883
Bull Bayou Oil Co., Shreveport	Red River	9,611
Bowie Claiborne Oil Co., Homer	Claiborne	6,571
Builders Supply Company	Caddo	2,935
Big Six Oil Company	Caddo	469
Burton, J. W.	Caddo	1,082
Bassett Oil & Gas Co.	Caddo	102
Baird, Geo. O., Am. Bk. Bldg., Shreveport	Bossier	234
Brown, E. T. Belcher	Caddo	1,159
Beckenstein H., Synd., Vinton	Calcasieu	2,292
Bernstein, Henry, Monroe	Claiborne	7,638
Belchic & Laskey, Sinclair Building, Shreveport	Claiborne	15,358
Coastal Oil & Fuel Corp., Crowley	Arcadia	10,735
Chandler-Collins et al, 802 Ardis Bldg., Shreveport	Arcadia	7,844
Cherokee Oil Co., 304 Ward Bldg., Shreveport	Caddo	4,048
Caddo Central Oil & Ref. Corp.,	Caddo	34,140
Cook & Douglas Company	De Soto	710
Caddo Central Oil Company	Red River	23,406
Chesser & Thomas	Sabine	516
Clark & Greer Drilling Co., Merchants Bank Bldg., Shreveport	Claiborne	37,155
Consolidated Prod. Oil Corp., 120 Liberty Ave., New York, N. Y.	Claiborne	7,100
Consolidated Prod. Oil Corp.	Claiborne	671
Chew, W. D. & Aerrie, Shreveport	Caddo	23,481
Cole Chew, Shreveport	Caddo	1,179
Cooney & Atkins	Caddo	.....
Costin, Wm. G., Box 752, Pittsburgh, Pa.	Caddo	.....
Carroll, S. J.	Caddo	1,239
Central & Coast Midwest & Gulf Co., 1008 Mayo Bldg., Tulsa, Okla.	Red River	4,731
Dixie Oil Company, 406 Columbia Bldg., Shreveport	Caddo	206,239
Dies, H. C.	Caddo	2,904
D. K. F. Drilling Company	Claiborne	65,254
Doan Oil Company, Shreveport	Caddo	2,756
Doan Oil Company, Shreveport	Caddo	1,795
Doyle & Grayson	Bossier	4,522
Duggan, R. F., Praetorian Bldg., Dallas, Texas	De Soto	1,572
Delahoussaye & Stockstill	St. Martin	1,009
Elam Syndicate, Mansfield	Claiborne	393
Eagle Petroleum Co., 417 Carter Bldg., Houston, Texas	De Soto	7,908
Freidman, Aaron	Claiborne	627
Freidman, N. G.	Claiborne	627
Frost Oil Company, 804 Commercial Bank Bldg., Shreveport	Claiborne	13,972
Fitch, Chas. W.	Bossier	314
Federal Petroleum Company	Claiborne	83,518
Fortuna Oil Co., Box 1667, Dallas, Tex.	DeSoto	3,378
Fortuna Oil Co., Box 1667, Dallas Texas, Red River		172,646
Freidman, H. G., Box 144, Shreveport	Caddo	308
Freidman, Aaron, 230 Eagan Ave., Shreveport, Caddo		309
Fitch, Chas. W.	Red River	471
Gulf Refining Company, Houston, Texas	Arcadia	29,843
Gulf Refining Company, Houston, Texas	Bossier	478,877
Gulf Refining Comapny, Houston, Texas	Caddo	9,424
Gulf Refining Company, Houston, Texas	Caddo	22,266
Gulf Refining Company, Houston, Texas	Caddo	128,718
Gulf Refining Company, Houston, Texas	Calcasieu	71,450
Gulf Refining Company, Houston, Texas	De Soto	19,678
Gulf Refining Company, Houston, Texas	De Soto	3,143
Gulf Refining Company, Houston, Texas	De Soto	212,944
Gulf Refining Company, Houston, Texas	Red River	1,717
Gulf Refining Company, Houston, Texas.	St. Martin	1,586
Gulf Refining Company, Houston, Texas	Bossier	729,374
Gulf Refining Company, Houston, Texas	Claiborne	10,796
Gulf Refining Company, Houston, Texas	Claiborne	14,131
Glassell & Merrin	Caddo	2,292
Gulf Coast Oil Co., Vinton	Calcasieu	498,997
Gilliland Oil Co., Box 2065, Tulsa, Okla.	Claiborne	305,241
Gilliland Oil Company, Tulsa, Okla.	Claiborne	38,531
Gilliland Oil Company, Tulsa, Okla.	Red River	1,804
Gilliland Oil Company, Tulsa, Okla.	De Soto	606
Glassell & Merrin	De Soto	9,959
Gay-Hamill Company	Sabine	11,914

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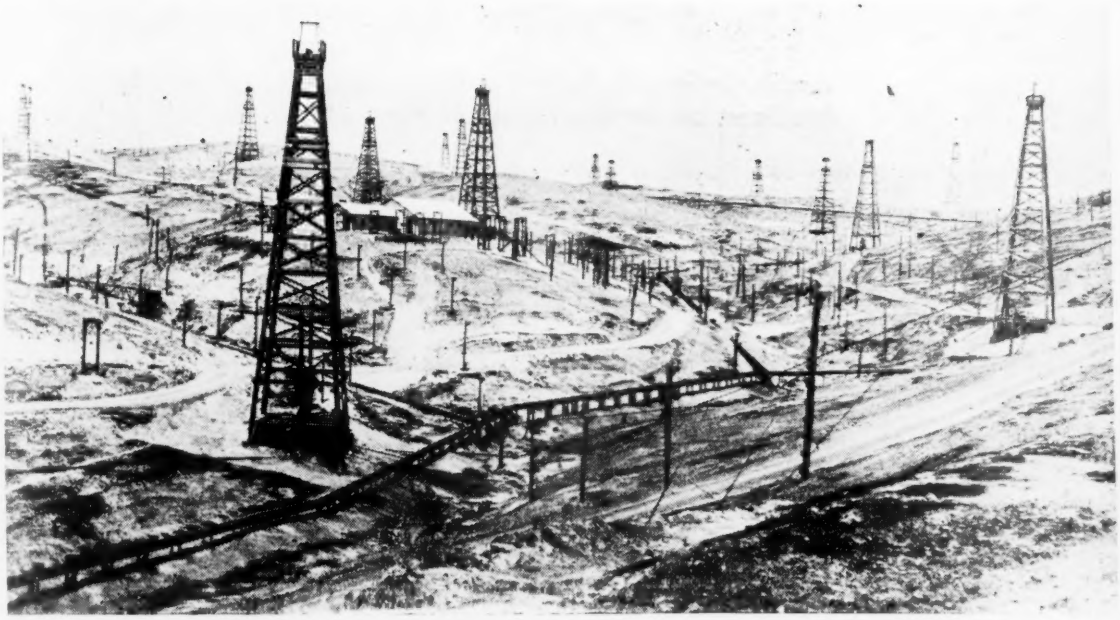

Figure 1.—View of central power and flume system in arear of rough topography in the northern part of the Kern River field of California

Methods Used in Cleaning Out Oil Wells

Systems used in Kern River field of California may apply to other districts

*By G. O. Suman, Jr.

The methods used in cleaning out oil wells in the Kern River oil field in Kern County, California, are herewith given in order that operators in other fields in which similar conditions are met may perhaps find something which will prove of value to them in their operations. The Kern Front District, northwest of the old Kern River field, is not included in this discussion.

History of Field

Drilling operations were started at the Kern River field in 1899. At the present time there are 2162 producing wells ranging in depth from 250 feet to 1345 feet. The wells produce from one to 100 barrels net oil, daily, depending upon their location in the field. The average for the field is now 9.5 barrels net oil, per well per day. The wells having the greatest thickness of oil sand have been the most prolific producers. Most of the wells in the Northern and Eastern parts of the field produce little or no water. In the southern and western parts of the field there is a large area flooded with water; some of the wells in this area produce as much as 1500 barrels of water daily with a 4-inch pump making 40 strokes per minute, length of stroke 24 inches. Surrounding and in this water flooded area there are a number of wells producing from 0 to 150 barrels of water, daily. In the flooded area the wells are pumped individually by steam, gas, or electricity and 4 wells are on air producing about 2,000 barrels of water each, daily. In the area free from water and in the areas showing not a too harmful quantity of water the wells are pumped from centrally located powers by gas or electricity. Note figure No. 1. The greater number of the wells are pumped electrically, the use of air, gas and steam having been reduced to a minimum. For instance, the Associated Oil Company, operating 642 wells, pumps 573 by electricity, 60 by steam, 5 by gas and 4 are on air. The arrangement is as follows:

	No. of Wells
Individual motors	203
Jack plants	363
Steam engines	50
Gas engines	1
Air	4
Bobtailed off individual motors	21
Jack plants on steam (1), pumping	10
Jack plants on gas (1), pumping	4
Jack plants on Elec. (22), pumping	349

The wells of the Associated Oil Company pumped individually by electricity have 15-30 H. P. electric motors. These motors have been found to be satisfactory for pulling tubing, pumping, and cleaning out operations as well as being satisfactory in case redrill work of oil or water string is found necessary. The centrally located powers operated electrically have 30 or 40 H. P. motors and pump satisfactorily from 4 to 26 wells ranging in depth from 700 to 1200 feet. The wells pumped from powers generally are stripped of rig machinery, the derrick alone left standing.

For pulling tubing and cleaning out wells pumped by jacks the small Hopper hoist installed on a two and half ton Mack truck (shown in fiugres No. 2 and 3) has been found satisfactory. A Holt 75 H. P. tractor with Hopper hoist as shown in figure No. 4 is used by one company. The tractor is especially useful during the rainy season as it can, with ease, go over muddy places in which a truck would become stalled.

Geology of Field

The Kern River oil field is a monoclinal structure dipping towards the southwest at an angle of 3½ degrees. Towards the southwest and northeast the upper sands are not productive and the producing oil sands are, therefore, not as thick as in the center of the field. The loose and unconsolidated sands range in thickness from 50 feet to 450 feet and are separated by irregular clay strata. Note figure 5, well log. An even greater thickness of pro-

(Continued on page 85)

Petroleum Engineer.

Oklahoma Production Now Steadily Declining

Available figures show that daily average has been on downward trend since July

By Grady Triplett

TULSA, OKLA., Sept. 19.—Output of oil in Oklahoma is now declining steadily, just as it rose steadily to the high point for July. Even yet Oklahoma's production is not down to the 400,000 barrels daily, frequently put forward in recent weeks.

The decline is due to the consistent dropping off of Burbank wells and the loss of the high flush production that came from the many big wells in the new pools of Creek County.

The only field that threatens to counteract this steady loss in Oklahoma production is Tonkawa. With the north part of this new field coming in with wells of the 1,000 barrel class, this new Noble County field may soon reach a 50,000 barrel daily output, a figure its ardent backers have been predicting for three months.

Keeping tab on Oklahoma production has been a varied sport since lower production became desirable and the shut down and buy a tank movements got under way. Strange to say, abrupt drops have been reported simultaneously with the desire for lower production. In few instances have these been borne out when field reports have been gathered and consulted.

It is difficult to keep an accurate check on Oklahoma production, or production in any other state. That Oklahoma production is usually carried too low is borne out by quarterly production reports filed by producers and made public by the State. Invariably the total for these three month periods runs higher than the published reports, which come from sources as reliable as can be found.

In this connection it is a curious fact that sources as accurate as can be found carried Oklahoma production at 440,000 barrels daily for July. In most cases published reports were from 25,000 to 30,000 below this.

The comparative tabulation shown below gives Oklahoma a daily average of 432,770 barrels in July. This figure comes between the extremes for that month. It just about represents the amount of oil going to consumption. With a production of around 440,000 barrels daily, much oil is lost to consumption. Some oil is burned for fuel, although Oklahoma fields generally use gas for drilling and other purposes.

August figures have been inconsistent to a degree that has been inexcusable. Almost overnight, when lower production became desirable, Oklahoma production was put down to 400,000 barrels daily, when two weeks previous, the output was some 40,000 barrels more than that.

Lower production in August seemed to be more a matter of desire and subtraction.

The tabulation below, compiled from sources as for June and July, shows that August production in Oklahoma was 425,915 barrels daily.

During the first half of September the trend of Oklahoma production has been steadily downward, the decline curve being slightly steeper than for August against July. Every indication, Tonkawa excepted, is that Oklahoma production will continue to drop, perhaps throughout the winter. Rig building has been cut in half in Oklahoma within two months. Wells begun number about half the total of completions each week.

The full effect of this situation will not be felt for another thirty days. At the end of that time, should drilling be stimulated from some cause, another three months would elapse before production would begin to climb. So Oklahoma production seems sure to drop for a period of six months, from August 1.

Before January 1, daily production in Oklahoma should pass under the 400,000 barrel mark.

The tabulation below shows from where the output came for the three months that Oklahoma was on its record figures:

Comparative Statement of Oklahoma Production by Fields for the Past Three Months.

Field—	June	July	Aug.
Allen	410	395	420
Bald Hill	3,920	4,590	4,800
Barnes	1,510	1,475	1,500
Beggs	250	275	250
Bird Creek-Kriatook-Flat Rock	5,500	5,700	5,580
Bixby	900	750	1,000
Blackwell	2,310	2,140	2,500
Boynton	2,000	1,750	1,760
Broken Arrow-Inola	580	550	530
Brock	900	1,000	1,150
Burbank	68,700	78,200	74,530
Cement	2,150	2,500	2,600
Cleveland	6,850	6,650	6,600
Continental	30,900	30,500	31,000
Coweta	310	330	290
Comanche	800	910	850
Cushing	31,750	31,000	29,900
Deer Creek	350	300	325
Depew	15,200	19,210	18,200
Duncan	13,200	15,450	14,000
Fox	4,000	4,100	4,300
Garber	6,100	6,200	6,050
Glenn Pool	12,210	13,400	13,000
Hamilton Switch	575	525	550
Healtdton	19,650	20,500	19,320
Henryetta	1,900	1,750	1,725
Hewitt	29,500	30,500	30,000
Jennings	4,800	4,650	4,500
Kellyville	5,100	6,690	8,000
Kingwood	2,970	3,100	2,600
Loco	1,540	2,000	2,200
Manford	1,000	890	650
Mervine	1,200	1,100	1,210
Morris	1,200	1,110	1,100
Mounds	900	1,000	1,250
Muskogee	855	810	775
Okemah	1,650	2,200	2,000
Osage, (Outside Burbank)	31,800	35,800	37,750
Papoose pool	27,100	27,160	21,000
Phillipsville	2,020	2,000	1,900
Ponca	1,500	1,350	1,300
Robberson	3,000	3,200	3,650
Simmons	5,460	4,000	3,700
Slick	13,000	13,000	12,700
Stone Bluff	630	610	650
Tiger Flats	6,000	6,250	6,500
Tonkawa	4,000	4,600	9,750
Walters	1,850	1,900	1,800
Washington and Nowata	14,100	14,000	13,850
Watchorn	*	290	300
Wilcox	2,000	2,010	1,850
Yale	12,900	12,000	11,800
Youngstown	400	400	400
Totals	404,400	432,770	425,915

*Not Producing in June.

Sinclair Reported to Have Secured Concession on Island of Sakhalin

WASHINGTON, D. C., Sept. 16.—The Sinclair Oil Company is reported to have obtained valuable concessions from the Chita government covering acreage in Sakhalin, Siberia.

A publication on the mineral resources of the Far Eastern Republic, published by the Special Delegation of Far Eastern Republic to U. S., says, in part:

"Oil is found at Sakhalin Island on eastern coast and has been known to be there since eighties of last century. Among typical indications of presence of oil are extensive tar fields and pits filled with thick oil.

"By these surface signs a number of oil fields have been ascertained, some of them being, in the north: Okhinsk, Ekhabinskal, Kydylanyinsk, Piltunsk, Nutovsk, Baotysansk, Nogliksk and Nebilsk. Extent of above mentioned oil fields is limited by narrow strip of low hills on eastern coast of island.

"Actual oil bearing beds have been proved so far only on Nutovsk oil field in tertiary formation.* * *Mighty development of post-Pleocne formations point definitely to fact that Sakhalin oil—like that in Japan—is to be found at great depth and can be explored only by means of deep boring."

Chance for More Oil in Southwestern Texas?

Region along Rio Grande has possibilities; Folds, though small, are reported promising

WASHINGTON, D. C.—The search for oil in counties in Texas along the Rio Grande has been persistent and has been rewarded by some measure of success. Several wells have obtained showings of oil both from the Cretaceous and the underlying Carboniferous formations and some oil and gas fields of small output have been developed. The region is so vast, however, and the geologic conditions are so varied that the success attained appears insignificant. Enormous areas that must be classed as possibly oil-bearing have not been tested. Many of the wells have been drilled at places determined by the whim or the "hunch" of the operators, without reference to the geology; and their failure does not really show whether or not oil can be obtained in the region.

Most oil men now freely admit that the first prospecting for oil in any region should be confined to the anticlines—the arches of the beds—provided they can be discovered, but in the plains along the Rio Grande anticlines are not easily found, and the difficulty of finding them has doubtless been the cause of the failure of a large part of the prospecting. They are known to exist, however, and they can be found by a trained geologist. An anticline was discovered in the vicinity of Del Rio, Val Verde County, Texas, in the summer of 1921 by L. W. Stephenson, of the United States Geological Survey, who gives the following brief description of the geologic conditions in that region.

Geologic Structure in the Region

With the exception of certain very recent deposits of gravel and loam which cover parts of the surface, the rocks exposed in the southeastern part of Val Verde County and the southwestern part of Kinney County are of Cretaceous age and belong to the following geological formations, named in the order of their age, from the oldest to the youngest: Edwards limestone, Georgetown limestone, Del Rio clay, Buda limestone, Eagle Ford formation (shale and limestone), and Austin chalk.

The normal dip of the rocks in the vicinity of Del Rio is toward the east and southeast. The Edwards limestone outcrops in the walls of Devils River gorge, 10 miles northwest of Del Rio. The Edwards is overlain by the Georgetown limestone, which outcrops over much of the area between Devils River and San Felipe Creek at Del Rio. The Georgetown is overlain by the Del Rio clay which outcrops in the steep westward-facing scarp of the valley of San Felipe Creek east of Del Rio. The Del Rio clay is overlain by the Buda limestone, which outcrop in the upland southeast of Del Rio; the Buda is overlain by the Eagle Ford formation, which outcrops still farther to the east and southeast; and the Eagle Ford is overlain by the Austin chalk, which appears at the surface in a broad area in the southeastern part of Kinney County.

The existence of an anticline is shown by the abnormal extension toward the east of the Del Rio clay, the Buda limestone, and the Eagle Ford formation. If there were no anticline here the Del Rio clay would not outcrop at any point more than four or five miles east of Del Rio, and the Buda would not outcrop more than six or seven miles east of that town. In the area east by north of Del Rio, however, the Del Rio clay appears at the surface as far east as an arroyo 10 miles east of Del Rio and about two miles south of the Southern Pacific railroad, and the Buda limestone appears as far east as Sycamore Creek, about 12 miles east of Del Rio. Were the rocks not folded into an anticline here, only rocks of the Eagle Ford formation would outcrop along Sycamore Creek and for four or five miles west of that creek. The axis of this anticline starts at a point on Sycamore Creek about two miles south of the Southern Pacific railroad bridge, and trends west by north, passing about half a mile south of Johnstone, and perhaps a mile and a quarter north of the Barret ranch.

> **"Col. A. E. Humphreys and his trained geologist, F. Julius Fohs, should take a vacation. A trip around the world with a month in each of the principal nations would be about the right length of time. Whenever the producer has a chance of getting a better price for his crude Fohs smells out a new field and Humphreys brings it in. It is somewhat encouraging, however, to hear Fohs state that it will not be the policy of the company to rush developments of its acreage at Kosse, Texas, and thus weaken the crude market."—A J. Hazlet, in The Inland Oil Index.**

The Cretaceous formation of the Comanche series that will be penetrated by a well drilled half a mile southeast of Johnstone are the Del Rio clay, Georgetown limestone, Edwards limestone, Comanche Peak limestone, and Glen Rose limestone. The total thickness of these formations is not less than 2100 feet and probably not more than 2300 feet, as shown by the records of the two wells considered below.

The Taylor No. 1 of the Mud Creek Oil Company, which is a quarter of a mile east of Mud Creek and about a mile north of the Southern Pacific railroad, in Kinney County, was drilled to a depth of more than 2800 feet. Samples of borings from this well were studied by V. V. Waite of the Bureau of Economic Geology and Technology, Austin, Texas, and by Dr. J. A. Udden, director of the bureau, under whose direction the work was done, both of whom believe that the beds of limestone penetrated between depths of 2000 and 2500 feet belong to the Glen Rose formation, which lies at the base of the Comanche series. At the site of the well, therefore, there are at least 2500 feet of Cretaceous beds, of which the upper 100 feet or more belong to the Eagle Ford formation, which overlies the Comanche series. On the crest of the anticline, which at the nearest point is about two and a half miles south of the well, the thickness of the Cretaceous beds is less, as indicated in the estimate given in the preceding paragraph.

The Moore well No. 1 of the Reclamation Oil Producing Syndicate, which is near the northwest corner of section 491, Block 4, about six miles north of Del Rio, when last reported was drilling at a depth of 2335 feet. A log of this well to a depth of 2245 feet was received from Sidney Powers, chief geologist of the Amerada Oil Company. The well started in the Del Rio clay, and the base of the Trinity group, the lowermost group of the Comanche series, is thought to have been reached at a depth of about 2175 feet. This thickness plus the thickness of the Buda limestone (estimated at 60 feet) which was absent where the well was located, indicates that the total thickness of the Comanche series in this region is at least 2235 feet. Below a depth of 2175 feet the well penetrated bituminous shale and gray limestone, probably of Pennsylvanian age, to a depth of 70 feet. This well is about two miles north of the crest of the anticline.

This thickness of Cretaceous beds indicates that the Comanche series thickens from the region of the Uvalde and Brackett quadrangles toward the west, and such a thickening has been detected in some of the surface formations. According to T. W. Vaughan the thickness of the Comanche series below the top of the Del Rio clay in the Brackettville region is only a little more than 1300 feet, divided as follows: Del Rio clay, 60 feet; Georgetown limestone, 50 feet; Edwards limestone, 650 feet; Comanche Peak limestone, 60 feet; and Glen Rose limestone, 500 feet.

The beds appear to have been uplifted about 150 feet above their normal position along the axis of this anticline. This is a minimum estimate. If the record of Taylor No. 1 well of the Mud Creek Oil Company, which is about two and a half miles north of the axis of the fold, be accepted as correct the uplift is much greater. This log records "sea mud," thought by Dr. J. A. Udden to be the Rel Rio clay, at 400 feet. As the Del Rio clay is almost at the surface on the crest of the fold in the bed of Sycamore Creek three and a half miles southwest of the well, this record, if accurate, would indicate an uplift of at least 300 feet. The accuracy of this well record, however, must be questioned, for if the Del Rio clay is actually 400 feet below the surface at the drill site the overlying

Buda limestone and the Eagle Ford formation would have to be much thicker than it is thought they actually are.

Questions to Be Considered Before Drilling

The answer to the question whether or not an expensive test well should be drilled on this anticline should depend on the answers given to the following questions: (1) Is the folding sufficiently pronounced to form a trap for oil? (2) Are any of the folded beds sufficiently porous or cavernous to form a reservoir for oil in commercial quantities? (3) Is there an adequate source from which such a reservoir could have become filled with oil? (4) Is this the best location in this general region for a test well?

Beds Are Gently Folded

The very gentle folding in this anticline indicated by the surface distribution of the formations does not offer conditions that are particularly favorable to the accumulation of oil, but the conditions should be much more favorable here than in the surrounding territory. Similar anticlines in other areas have yielded oil in commercial quantities. Furthermore, the anticline is probably a reflection of the structure in the underlying Pennsylvanian beds, which are believed to lie at a depth of 2100 to 2700 feet and in which the folding may be much more pronounced than in the beds that outcrop at the surface, for the older rocks may have been folded along the line of weakness represented by the axis of the fold before the younger Cretaceous rocks were laid down upon them.

Some of the Beds Are Porous

The existence of porous or cavernous beds adequate to serve as reservoirs for the accumulation of oil cannot be positively asserted. The Edwards limestone, which would be reached at a depth of about 150 to 200 feet near Johnstone, is more or less cavernous throughout its known outcrop along the Balcones fault zone, which extends from a point north of Austin nearly to the Rio Grande, but the buried part of the Edwards along this zone appears to be almost everywhere filled with fresh water, and the formation may elsewhere be water-bearing rather than oil-bearing.

Several water-bearing sandstones below the Edwards limestone were noted in the logs of oil-prospecting wells. According to one unconfirmed report a strong flow of water was struck in sandstone at a depth of about 1650 to 1750 feet in the prospect well of the Mud Creek Oil Company (Taylor No. 1). If this report is correct it indicates that there is at least one bed in the Comanche Peak or Glen Rose formation sufficiently porous to contain large volumes of fluid, and the hope that this bed may be oil-bearing below the anticline is not diminished by the fact that it yields water in the Mud Creek well, for this well was drilled on a syncline where water rather than oil would normally be expected in any porous bed. In the Moore well, six miles north of Del Rio, two water-bearing sands 10 to 28 feet thick, respectively, were penetrated at depths of 1780 to 1960 feet; and water-bearing sandstone and sand that are regarded as forming the base of the Comanche series were penetrated between depths of 2100 to 2175 feet.

The possible presence of beds that would form a good reservoir for oil either in the Pennsylvania rocks below the Cretaceous or just at the contact of the Cretaceous and the Pennsylvanian is indicated by the well records. A sample of the sandstone and limestone was obtained at a depth of 2700 feet in the Mud Creek well, but neither the thickness nor the porosity of the sandstone was determined. A thickness of 10 feet of sandstone at a depth of 2195 to 2205 feet is mentioned in the driller's log of the Moore well. The character of the beds in the Pennsylvanian rocks below the depths reached by the Moore and Mud Creek wells is not known, but it is not unreasonable to hope that in the thickness of 2000 feet or more of these beds that should be penetrated by a deep test well drilled on the Del Rio anticline there may be beds well adapted to serve as reservoirs for oil.

Source of the Oil

Although oil is commonly found in sandstone and porous limestone it is believed to originate in bituminous shale and limestone, and the known presence of such bituminous beds in any region adds greatly to the prospective chances of obtaining oil there. Some of the limestone in the samples from the Mud Creek well (Taylor No. 1) was slightly bituminous. In this well a dark gray, slightly bituminous shale was struck at a depth of 2,620 feet. This shale may belong to the Cretaceous or to the underlying Pennsylvanian. In the Moore well No. 1, bituminous limestone was penetrated between depths of 665 to 683 feet, and bituminous shale, probably of Pennsylvanian age, was penetrated between depths of 2175 and 2215 feet. The Pennsylvanian beds, if judged from outcrops in southwestern Texas, probably contain still other bituminous beds in the 2000 feet that lie within drilling depth of the surface.

Folds Are Small, Yet Promising

The justification for drilling a test well on an anticline fold depends in large measure upon its size and character compared with other folds in the same region. Folds that are eagerly drilled in the Mid-Continent region might not be thought worth considering if they were in Wyoming, where all the great pools have been found on steep-sided anticlines, and they would seem even less promising in California. On the other hand, any anticlinal fold, however slight, in a region where the beds lie flat may be promising, and this particular fold, which is more evident and apparently more pronounced than any other known fold in this general region, undoubtedly merits a test if there is a reasonable chance that reservoir beds and oil-forming beds underlie it within drilling depth.

THE WEEK IN OKLAHOMA

County--	New Rigs	Rigs Abd.	Comple-tions	Pro-ducers	Gas Wells	Fail-ures	Initial Prod.
Creek	15	1	25	19	1	5	9,560
Tulsa	0	0	4	2	0	2	50
Payne	0	0	1	1	0	0	3,400
Garfield	0	0	2	1	0	1	25
Okfuskee	8	0	4	3	0	1	575
Okmulgee	7	1	18	5	9	4	185
McIntosh	2	0	3	0	3	0	....
Wagoner	1	0	1	0	0	1	....
Cherokee	1	0	0	0	0	0	....
Hughes	1	0	0	0	0	0	....
Osage	14	0	29	23	0	6	6,560
Noble	4	1	5	2	0	3	1,100
Pawnee	3	1	5	2	0	3	1,100
Kay	0	0	1	0	1	0	....
Carter	2	0	4	1	1	2	75
Garvin	2	0	4	2	0	2	100
Stephens	1	0	9	4	1	4	130
Caddo	0	1	1	0	0	1	....
Beckham	0	0	1	1	0	0	45
Jefferson	1	0	0	0	0	0	....
Totals	62	5	117	66	16	35	22,905
Last week	49	9	93	58	10	25	9,370

"We are sending you our formal purchase order covering subscription to The OIL WEEKLY to be sent to 40 employes of the Simms Oil Company. It may be that some of these employes have already subscribed individually; in such event, we would be glad if you would return their individual subscription payment and let the Company take care of this for them."

"It may be that you would like to send out letters to each of the men whose names are listed, advising that The OIL WEEKLY is being sent to them at the request of Mr. Edward T. Moore, President of the Company, and with his compliments."

And mind you, it was just the other day that we heard some oil men talking about the Simms Oil Company.

"That company has shown better business judgment, and is operating more nearly on a real business basis than almost any company I can think of," said one of the men.

Yes—and it's the kind of company that wants its men to take advantage of all the information on field practices going the rounds. A good oil journal fills the bill more economically than anything else.

Wyoming Producers Reported 18,599,355 Bbls.

Reports filed for taxation purposes show 57 companies producing oil in 1921

CASPER, WYO., Sept. 20.—During the year of 1921, Wyoming operators produced a total of 18,599,355 barrels of oil, according to reports filed for taxation purposes here.

The report shows that only 57 companies operating in the state developed commercial production, and that five companies produced more than 14,000,000 barrels of the total.

Those companies, in the order of their production, follow:

	Barrels
Midwest Refining Company	4,178,440
Ohio Oil Company	3,832,692
Midwest Oil Company	3,636,945
Merritt Oil Corporation	1,211,598
Wyoming Oilfields Company	1,199,956

By this it will be seen that more than half of the production in Wyoming is controlled by Standard companies.

The oil reported by the companies totals very closely to the estimated production of Wyoming for 1921, as carried in the Statistical Edition of The OIL WEEKLY last January, the difference being about a half million barrels.

The companies and their production follow:

Name of Company, Address	Gross Prod. Bbls. (42 gal. each)
Allen Oil Co., Billings Mont.	52,053.00
Anglo United Oil Fields, Lander, Wyo.	68,321.00
Bair Oil Co., The, Cheyenne, Wyo.	380,811.16
Blackstone Salt Creek Oi Denver, Colo.	158,551.68
Buck Creek Oil, The, Denver, Colo.	108,759.25
Burke Oil, Denver Colo.	130,950.15
Burks & Clark, Winnett, Mont.	4,463.89
Burlington Osage Oil, The, Arriba, Colo.	312.00
Chappell Oil, Denver, Colo	5,830.08
Clayspur Oil Co., Wolf Point, Mont.	1,079.00
Cook Oil Co., Thermopolis, Wyo.	5,217.76
Domino-Bessemer Assn., Casper, Wyo.	82,115.97
Duthie Oil Co., Seattle, Wash.	110,441.14
Elk Basin Cons. Pet. Co., Denver, Colo.	132,406.43
Empire State Oil Co., Jamestown, N. Y.	54,292.25
Frantz Corp., Denver, Colo.	3,120.88
Gen. Pet. Corp. of Cal., Rawlins, Wyo.	66,798.73
Glenrock Oil Co., Casper, Wyo.	74,137.74
Greater Wyo. Oil Co., Great Falls, Mont.	3,444.42
Guarantee Oil Co., The, Boise, Idaho	41.00
Hudson Oil Co., Denver Colo.	54,321.88
Inland Oil & Refining, Denver, Colo.	162,091.05
Iowa Wyo. Oil Co., Casper, Wyo.	5,235.00
Kasoming Oil Co., The, Cheyenne, Wyo.	216,818.18
Lathrop & Son, Newcastle, Wyo.	550.00
Leslie Oil Co., Thermopolis, Wyo.	12,242.77
Lewis, E. G., Basin, Wyo.	9,325.78
Littlefield & Son, C. E., Casper, Wyo.	21,460.83
Marine Oil, Casper, Wyo.	23,570.58
Merritt Oil Corp., Denver, Colo.	1,211,598.62
Midwest Oil, The, Denver, Colo.	3,636,945.59
Midwest Refining, The, Denver, Colo.	4,178,440.53
Mont. & Wyo. Oil Co., The, Billings, Mont.	(not known)
Mosher Oil, Casper, Wyo.	12,511.56
Mountain & Gulf Co., Denver, Colo.	372,150.21
Northwestern Oil, The, Denver, Colo.	301,056.62
Northwest Oil, The, Denver, Colo.	30,884.85
Ohio Oil Co., The, Findlay, Ohio	3,832,692.89
Osage Upton Oil Co., Deadwood, So. Dak.	3.00
Producers & Refiners Corp., Denver, Colo.	162,102.82
Production Oil & Gas Co., Salt Lake City, Utah	2,551.00
Red River Oil Co., Billings, Mont.	701.07
Salt Creek Cons. Oil, Denver, Colo.	907,761.78
Sand Hills Oil Co., Rawlins, Wyo.	1,733.80
Sheridan Wyo. Oil, Sheridan, Wyo.	2,192.00
Sinclair Wyo. Oil, Casper, Wyo.	188,292.49
Texas Company, The, Houston, Texas	102,333.14
Union Oil Co., of Cal., Los Angeles, Cal.	4,253.45
Western States Oil & Land Co., Casper, Wyo.	182,181.16
Whedon Oil Co., Sheridan, Wyo.	4,133.9
Whedon, Earl, Sheridan, Wyo.	471.13
Williams Oil Co., E. T., Denver, Colo.	211,790.94
Woods Petroleum & Refinery, Thermopolis, Wyo.	251.28
Wyokans Oil Syndicate, Casper, Wyo.	70,013.05
Wyo. Oil Fields Co., Denver, Colo.	1,199.956.73
Wyo. Premier Oil, Thermopolis, Wyo.	33,588.54
Total	18,599,355.75

Sinclair to Double Line to Whiting; Financing Wyoming to Gulf Project

TULSA, OKLA., Sept. 19.—From the proceeds of $25,000,000 in bonds, to be sold publicly, the Sinclair Pipe Line Company will double its capacity from the Mid-Continent fields to the Whiting, Indiana plant. From Mexia the Sinclair line will be extended to the Sinclair refining plant on the Houston Ship Channel. This bond issue, also, will provide funds for the proposed line frim Teapot Dome to the trunk line at Kansas City.

Work on doubling the line from Drumright, Oklahoma, to the Whiting plant is to begin within a few weeks. It should be completed by the middle of next month. The southern extension is to be made shortly. The Teapot Dome line, which is part of the contract between the Sinclair interests and the naval department, will depend on the outcome of wells now drilling on the Wyoming oil reserve.

Between Drumright and Whiting, 429 miles of 12-inch line will be laid and 256 miles of 8-inch line. This will give the Sinclair line daily capacity of around 40,000 barrels daily from the Mid-Continent fields to the refining plants beween Drumright and the Whiting terminus. The 165 miles between Mexia and Houston will be a combination of 8-inch and 10-inch pipe. Size of the line from Teapot Dome is yet to be determined.

Tulsa, Okla., Sept. 20.—Initial production of 1000 barrels was found in the Texas and Pacific Coal and Oil Company's No. 2 Hatfield, northeast corner of the southwest quarter of 13-1n-3w, Garvin County, at 1525 feet. This is the largest well yet completed in the Robberson pool.

The line to the south gives the Sinclair pipe line system its first terminal at tidewater. Through this oil from the general Mexia area or from the fields of high gravity oil in North and West Texas can be loaded for delivery by tanker to Atlantic ports, something now possible by Humble, Gulf, Texas and Pure-Humphries lines.

Half the Sinclair Pipe Line Company is owned by the Standard Oil Company of Indiana. Both the Sinclair Refining Company and the Standard Oil Company of Indiana use this line for supplying their plants throughout the Middle West. With the capacity of the line increased by 20,000 barrels daily, this one sytem will be able to supply the plants of both concerns with crude oil.

When the new bond issue was announced, a report from New York was to the effect that the Standard Oil Company of Indiana had bought another fourth of the line, giving it control. This, however, was denied by officials of the Sinclair Consolidated Oil Corporation. It was explained that the stock of the Sinclair Pipe Line Company was just now being turned to the Standard Oil Company. Since the time of selling half the line, more than a year ago, this stock has been in use as security on another financial deal.

Sales of Spot Gasoline Are at Low Ebb; Kerosene More Lively

TULSA, OKLA., Sept. 20.—Spot sales on gasoline have fallen to a low figure over Group Three territory, with the result that quotations are lower than one week ago. New navy gasoline at 13¾ to 14 cents is one-fourth to one-half cent lower than last week. Inquiries for kerosene come from all sections of the country. Household use of this product is thought to be responsible fo rthe continued movement of this product.

Fuel oil is quoted at $1.15 a barrel, a figure in line with prices a week ago, and very little below the quotation of the past month. Limited buying of gasoline is no doubt brought on by the approach of the cooler months, which mean the end of touring with less use of motor cars.

Buyers have for two months hoped for lower prices on gasoline. Now that buying is sure to drop off, they continue to deal on the theory that the drop soon will come.

Market Quotations

A fair list of prices on refined petroleum products in the North Texas district, f. o. b. shipping point in tank car lots, follows:

Gasoline, SR, 56-58, 450 e.p.	12½	13
Gasoline, SR, 58-60, 437 e.p.	13¼	14
Gasoline, SR, 60-62, 400 e.p.	15½	16
Gasoline, SR, 64-66, 390 e.p.	16½	17½
Naphtha, 50-52, 450 e.p.	10½	11
Natural Gasoline (Casinghead) 80-88	15½	16
Natural Gasoline (Absorption) 70-74	16½	17
Kerosene, WW, 41-43	4¼	5
Distillates, 36-38	2¾	3
Gas Oil, dark or straw, 32-36	2½	2¾
Fuel Oil (Wichita Falls)	92½	1.00
Fuel Oil (Fort Worth)	1.15	1.20

Tonkawa Pool Extended Half Mile to the North

Tulsa, Okla., Sept. 20.—Production in the Tonkawa field was extended half a mile to the north when the McCaskey and Wentz No. 2 McKee in the Southeast corner of the Southwest quarter of 34-25-1 west for 600 barrels natural at 2014 feet.

The sand was found 45 feet higher than in the Comar Oil Company No. 1 Carmichael, which is a half mile to the south.

Pipe Line Storage Shows Increase During August

New York, N. Y., Sept. 15.—Pipe line and tank farm gross crude oil stocks east of the Rocky Mountains increased 3,597,600 barrels during August, according to figures compiled by the American Petroleum Institute from reports to it by representative companies. Net changes shown by reporting companies accounts for increased decreases in general crude stocks including oil in transit.

Katy Embargo May Affect Runs of Refineries in Iowa Park Section

WICHITA FALLS, TEXAS, Sept. 19.—The biggest feature of the market in North Texas early this week was the embargo announced by the Katy, starting Monday night and over a 92-hour period. In some quarters this embargo was greeted with much dislike, while in other quarters, especially in Wichita Falls proper, some of the marketers thought the embargo would be a benefit.

The Katy yards are filled with loaded tank cars which have not been moved. And then the government has called upon the railroads to push all empty coal cars toward the mines to assist in moving coal. The embargo period will enable the Katy to clean its yards in North Texas of all empty coal cars and also to move toward destinations the loaded tank cars which have been ready for moving for several days.

The small refineries at Burkburnett are the hardest hit since they can only move stuff over the Katy. In Wichita Falls most of the plants can route over the Fort Worth and Denver out of the county.

The market for refined products continues steady with little change over the past week. Tank cars are moving a little faster and the demand continues fairly steady for fuel oil. Fuel oil could be bought in some quarters at 92½ cents, but there was little available at this price. Fuel oil is really worth one dollar in the Wichita Falls territory and most of that moving is at this figure. At Fort Worth, fuel oil is quoted at 15 to 20 cents more a barrel.

There is some demand for kerosene, with good prime 4-43 being quoted at 4

AVERAGE DAILY PRODUCTION FOR ALL UNITED STATES FIELDS
(Stated in Barrels)

This table is carried each week by The OIL WEEKLY, and shows daily production average for each state or section. Figures for Texas, Oklahoma, Kansas, Louisiana and Arkansas are compiled by The OIL WEEKLY, while estimates for the Mountain States, Eastern States and California are furnished by the American Petroleum Institute.

Week Ending—	West Texas	North Texas	Texas Coastal	Total Texas	Kansas	Oklahoma	Louisiana	Eastern States	Wyoming-Montana	California	Arkansas	U. S. Total
Jan. 7, 1922	199,220	66,410	108,145	373,775	88,050	311,850	94,475	115,500	59,625	320,000	45,530	1,406,805
Feb. 4	206,225	64,695	108,600	383,230	83,800	323,465	103,195	115,500	58,000	325,000	37,560	1,426,040
March 4	218,275	59,855	104,670	382,800	82,450	342,400	126,805	110,000	57,800	310,000	32,515	1,444,770
April 1	197,170	59,620	101,185	357,975	81,900	366,900	128,530	114,500	71,150	325,000	34,650	1,480,605
April 8	176,495	61,400	108,815	346,710	82,400	367,500	108,095	115,500	70,900	325,000	39,225	1,454,830
April 15	159,720	58,290	110,480	328,490	82,300	368,710	98,700	115,000	72,150	330,000	35,700	1,431,280
April 22	155,305	59,950	111,645	326,900	81,600	365,600	88,455	118,000	69,050	330,000	38,410	1,418,015
April 29	160,535	58,695	109,395	328,625	81,900	365,000	89,420	118,500	71,900	330,000	39,110	1,424,455
May 6	168,720	62,270	113,350	344,340	85,200	391,500	87,725	119,000	74,850	330,000	37,700	1,470,315
May 13	163,805	63,130	115,290	342,225	86,500	399,500	90,740	118,500	74,400	340,000	37,115	1,488,980
May 20	159,620	61,690	108,760	330,070	86,500	398,450	94,865	119,000	72,000	340,000	35,160	1,476,045
May 27	163,935	63,165	110,560	337,660	85,300	399,100	91,645	112,000	76,750	340,000	36,000	1,479,455
June 3	155,900	62,445	113,855	332,200	86,100	399,400	98,360	111,500	79,000	350,000	37,395	1,493,955
June 10	149,115	66,190	108,045	323,350	89,000	405,500	95,605	112,000	76,900	360,000	34,200	1,496,555
June 17	147,430	64,545	115,455	327,430	90,400	405,900	100,397	112,500	82,900	350,000	34,640	1,504,207
June 24	141,870	64,490	109,235	315,500	91,500	417,500	94,860	111,000	83,600	355,000	32,340	1,501,395
July 1	147,305	63,020	107,100	317,425	92,000	415,600	94,795	115,000	83,850	355,000	32,800	1,506,470
July 8	143,180	65,870	105,300	314,350	91,700	420,200	98,230	116,000	81,950	360,000	33,460	1,515,690
July 15	148,035	70,125	105,400	323,560	91,800	419,800	97,645	116,500	92,590	370,000	31,250	1,543,145
July 22	152,585	68,630	100,965	322,180	90,650	425,960	98,340	117,000	84,450	375,000	31,000	1,544,580
July 29	155,980	67,625	106,990	330,595	90,450	426,200	98,045	120,000	79,250	375,000	31,040	1,550,580
Aug. 5	150,230	69,055	105,805	325,090	91,675	420,250	94,350	120,500	85,200	375,000	32,105	1,544,170
Aug. 12	150,790	69,920	103,930	324,640	89,500	427,850	99,475	121,000	86,100	375,000	31,400	1,554,965
Aug. 19	144,015	70,445	106,855	321,315	89,100	412,200	97,330	121,500	82,350	375,000	29,735	1,528,530
Aug. 26	142,075	72,200	107,275	321,550	89,700	416,800	100,590	120,000	82,100	375,000	30,105	1,535,845
Sept. 2	139,120	70,640	108,290	318,050	88,300	421,900	103,415	117,000	81,000	380,000	31,530	1,541,195
Sept. 9	139,778	71,715	104,680	316,173	91,000	420,600	101,095	113,000	82,850	385,000	30,335	1,540,053
Sept. 16	125,365	67,755	106,212	299,332	90,600	409,700	102,425	113,000	78,100	385,000	30,000	1,508,157

NOTE—Mexia production included in West Texas.

to 4¼ cents. Water white 42-44 is worth at least a half cent more. Several buyers were shopping about early in the week for kerosene and a few cars were sold.

Gasolines were not any stronger and if anything the market was slightly easier, with movements very ordinary. The Katy embargo will hold the situation quiet for a few days, but movements should start before the latter part of the week.

No Break in Fuel Oil Price in Gulf Coast

Houston, Texas, Sept. 20.—The Lube oil market, as reflected by the demand for cold test oils made from Gulf Coast crude is pursuing the even tenor of the way it has gone during the last several weeks, according to local sales managers. The prices continue at the old level except in a few instances of close trading and some items are stronger. Continued rumors of premiums being paid for coastal crude oils is the strengthening factor in an uneventful situation. It continues to be apparent that the world is not consuming its accustomed quantity of lubricants, but recent developments in the strike situations promise a little more life, it is believed.

The breaks in the price of fuel oil reported from other sections following the settlement of the coal strike, have not been effective locally and the price remains at $1.50 to $1.60 per barrel, refinery.

Local quotations for the mid-week, refinery were about as follows:

Color	Viscosity @ 100° F.		Price per gal. High	Low
—2	70	Pale Oil	6	5.5
2	100	Pale Oil	7	6
2½	150	Pale Oil	11	9
3	200	Pale Oil	13	12
3½	300	Pale Oil	17	16
4	750	Pale Oil	30	29
5	200	Red Oil	12	10.5
5	300	Red Oil	16	13.5
6	500	Red Oil	20	16
Zero		Black	6	5
Gas		Oil	5	4
Fuel		Oil (barrel)	$1.50	$1.60

Crude Oil Prices

	Sept. 21 1922	Sept. 20 1921
LOUISIANA		
Caddo 38 gravity and above	$1.25	$1.25
Caddo 35 to 37.9 gravity	1.15	1.15
Caddo 32 to 34.9 gravity	1.10	1.10
Caddo 32 gravity and below	**.75**	**.60**
Homer 35 gravity and above	1.25	1.00
Homer 33 to 34.9 gravity	1.15	...
Homer 31 to 32.9 gravity	1.10	...
Homer 31 gravity and below	.75	.50
Haynesville:		
33 gravity and above	1.10	.75
32.9 gravity and below	1.00	.50
Bull Bayou:		
38 gravity and above	1.15	.90
35 to 37.9 gravity	1.05	...
32 to 34.9 gravity	1.00	...
De Soto Crude	1.25	1.15
Crichton crude	1.00	.75
Bellevue (Bossier Parish)	.75	...
Jennings crude	1.25	.80
Vinton	1.25	.80
Edgerly crude	1.25	.80
Cabel	1.86	$1.11
Pennsylvania	3.00	2.25
Ragland	1.00	.60
Corning	1.75	1.20
North Lima	1.98	1.58
South Lima	1.98	1.58
Wooster	2.10	1.80
Somerset, light	1.90	1.00
Somerset, heavy	1.65	.90
Illinois	1.77	1.27
Indiana	1.78	1.38
Plymouth	1.15	.65
Princeton	**1.77**	**1.27**
Waterloo	1.25	.75
TEXAS		
N. Texas (except Corsicana)	1.50	1.00
Corsicana, light	1.00	.85
Corsicana, heavy	.65	.50
Mexia	1.25	...
Currie (40 grav. and better)	1.50	...
Gulf Coast (ex. Pierce Junction, Blue Ridge and Hull)	1.25	.80
Nacogdoches	3.20	...
Pierce Junction, Grade A	1.25	...
Pierce Junction, Grade B	.80	...
Hull, Grade A	1.25	...
Hull, Grade B	.80	...
Blue Ridge	.80	..

CALIFORNIA

(Crude oil prices at the well)

San Joaquin Valley and Whittier-Fullerton fields

	1922	1921
14 to 19.9 gravity	.60	1.10
20 to 20.9 gravity	.63	1.10
21 to 21.9 gravity	.67	1.20
22 to 23.9 gravity	.73	1.25
23 to 23.9 gravity	.80	1.31
24 to 24.9 gravity	.88	1.38
25 to 25.9 gravity	.96	1.48
26 to 26.9 gravity	1.05	1.55
and for each increase in gravity of one full degree above 26, up to and inclusive of 34.9 gravity, ten cents a barrel additional.		
35 gravity and above	1.85	2.45
WYOMING		
Elk Basin	1.20	1.15
Grass Creek	1.20	1.15
Rock Creek	.80	.75
Lance Creek	1.20	1.10
Mule Creek	.60	.70
Big Muddy	.70	.65
Salt Creek	.70	...
Osage	1.20	...
Cat Creek (Montana)	1.20	...
Landers	.37½	...
ARKANSAS		
El Dorado:		
33 gravity and above	1.25	.60
Below 33 gravity	1.00	.50
OKLAHOMA		
Healdton, Walters, Beaver	.75	.75
Cement	1.00	.75
All other fields	1.25	1.00
38 gravity and above (Gulf only)	1.50	...
KANSAS		
All fields	1.25	1.00
KENTUCKY		
Western (Indiana Ref. Co.)	1.65	.90
CANADIAN CRUDE		
*Petrolia	2.38	1.98
*Oil Springs	2.45	...

*Plus 52½ cents bounty.

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OKLAHOMA PRODUCTION

Tulsa, Okla., Sept. 20.—Daily average production for the Oklahoma fields was as follows last week:

	Barrels
Burbank	68,750
Other Osage	39,000
Creek County—Bristow, Kellyville, Slick and Continental	65,000
Cushing	29,400
Hewitt	29,000
Okfuskee County	22,650
Healdton	19,000
Okmulgee District	19,400
Duncan and Walters	17,500
Tonkawa	11,800
Other fields	88,200
Total	409,700
Last week	420,600

OLD FIELDS COMPLETIONS

Company, Well, Location	Initial Production Bbls.	Depth
Creek County—		
Joe Abraham, Carmon 2 NWc SE NW 9-15-9	¶3	2160
Beggs Oil & Gas Co. Adams 7 C E L SE NW 10-15-11	¶8	2120
Berryman Oil Co. Marshall 1, C S L NW 10-12-13	*	2775
Burton et al Bruner 1, NWc SW SW 3-19-9	25	2740
Carter Oil Co. Cat 5, SEc NE SW NW 2-15-8	5000	3110
Cosden O. & G. Co. Vaughn 1, SWc NW SE 4-15-10	75	2630
Gypsy Oil Co.:		
Sanders 1, SEc SW NE 22-16-9	25	2970
Ponds 1, SWc NW NW 12-14-8	100	2535
Wardsworth 3, C W L E½ E½ 15-14-8	150	3210
Wardsworth 1, C NE SW SE 15-14-8	1000	3250
Haskell Oil Co. Stanford 2, NWc SW NW 12-14-8	75	2535
Ireland et al Farr 2 SEc 35-16-11	15	1810
Jomack Oil Co. Barnes 1, NEc 10-16-9	*	3425
Margay Oil Co. Scott 4, NWc NE NW 33-16-9	*	3015
McGree Oil Co. Toney 8, C N L S½ NW SE 3-15-10	20	2710
New York Oil Co. Miner 1, SEc SW SW 14-16-8	*	3730
Waite Phillips Mico 6, NEc SW 23-16-9	225	2940
Pulaski & Skelly Fife 5, NWc SE 15-14-8	400	3230
Shaffer Oil & Ref. Co. Wilson 3, NEc NW SW 17-18-7	75	2445
T. B. Slick unallotted 2, C NE NW SW 14-16-9	1200	2950
Smith & Ireland Fife 3, NWc SE SW 3-17-11	20	1800
Texas Co.:		
West 3, SWc NW SE 23-16-9	350	2965
Grayson 6, NWc SE 35-16-11	30	1815
Twin States Oil Co. Orcutt 11, C SE 22-16-9	25	2970
Transcontinental Oil Co. Looney 5 SEc NW 26-16-9	750	3015
H. C. Wilson Goodman 1, NWc SW NW 30-16-9	*	3690
Payne County—		
Magnolia Pet. Co. Miller 6 SEC NW SW 27-19-4	3400	3790
Tulsa County—		
Burton et al Timothy 1, NEc NW 22-19-10	*	2780
Jackson & Wise Strip 12, SEc NE SE 20-19-11	25	1780
Nutt et al Smith 9, C W L NE SE 17-19-11	25	2280
Charles Page Partridge 5, SWc 5-19-12	*	2250
Okmulgee County—		
Cosden Oil & Gas Co. Daniels 6, NWc SE 12-13-13	¶15	2445
Kingwood Oil Co. Cruse 1, SEc NE 35-12-12	*	3755
Mitchell Oil Co. Randall 2, SEc NW 30-12-12	50	2590
Okla Nat Gas Co. Marshall 11, SEc NE NW 14-15-12	¶6	1840
W. B. Pine Jacobs 9, C S L SE SE 33-12-12	50	2365
Preferred Oil Corp. Allen 1, C N L SE NE 2-14-11	25	2280
Sheldon Oil Co. Cover 4, NEc NW 17-13-12	¶8	2760
Skelly Oil Co. Wilson 2, C S L N½ NE NW 31-15-11	*	3160
Thompson & Jordan Hill 1, NEc SE SW 28-15-12	¶6	2130
Wooster Oil Co. Henry 1, SWc NW SW 29-12-13	¶2	1190

OKMULGEE SECTION COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
McIntosh County—		
Burch Oil Co. Wiley 1, SEc SW NE 22-10-9	*	3000
Flesher Pet. Co. P. Smith 1, C S L NW SW 29-12-14	*	2900
Wooster Oil Co. McIntosh 2, SWc NE NE SW 17-11-14	¶2	865
Okmulgee County—		
O. A. Lambert R. Rich 1, NWc NE SW 8-13-15	¶1½	785
E. J. Lambert:		
Smith 2, NWc SE NE 30-13-10	*	825
Bruner 3, NEc SW SE 7-13 15	¶1	2000
J. M. Mallendick M. Bruner 3, SWc NW NE NE 8-13-15	¶1½	750
W. B. Pine Hawkins 5, NWc NE NW 4-11-12	50	2495
Regal Oil Co. Larney 13, C NW NW 28-15-14	10	1625
Victor Oil Co. Corbray 3, SWc SE SW 23-14-14	*	1400

Oklahoma Stages Reversal of Form; Past Week Not a Curtailment Week

TULSA, OKLA., Sept. 20.—Oklahoma fields showed a reversal of form for the week just closed, when compared with the previous seven day period. More wells were completed, more initial production brought to the surface, more rigs begun and fewer rigs abandoned.

Except at Tonkawa, however, no field developed anything of the "menace" nature to the campaign of curtailment of field development. Creek County had a steady week. Burbank showed another drop in production. South Oklahoma pools had a week of extremely small events.

The Tonkawa pool continues to bear out hopes and predictions of the past year. The Comar Oil Company got a 1,000 barrel well in No. 2 Ruzek in the center of the Northwest of the northwest of the southeast of 3-24-1 west. The Blackwell Oil & Gas Company got flush production of 700 barrels in No. 2 Anna Ruzek in the northeast corner of the southeast of the southeast of the northwest of 3-24-1 west.

Both these wells are in the northern part of the field and assure the existence of a pool of sufficient size to bring substantial production to the ground. These wells are along what is believed to be the western edge of the pool. As yet no wells have been completed to mark the north and east boundaries of this north pool.

These wells are producing from the 2100 foot sand. Tests are being drilled to determine the value of the 2600 foot sand, which is the best of the producing horizons in the southern part of the field. Across the line in Kay County the Pennok Oil Company has completed No. 2 Endicott, in the southeast corner of 34-25-1 west as a 74,000,000 cubic foot gas well. This part of the district will be tested deeper for oil by rotary drilling.

The continued drop in production at Burbank leaves little doubt that this pool has seen its highest peak, reached in July. The drilling campaign continues unchecked at Burbank but the new wells are not sufficient to offset the loss of the flow of old wells. Few rigs are being built at Burbank.

After producing for almost two months, the wildcat well of the Barker Oil Company in Beckham County is listed as a completion this week. It is still making 45 barrels of oil with 18,000,000 cubic feet of gas. Its total depth is 2800 feet. This wildcat in western Oklahoma in the center of the southwest of the southeast of 15-9 north-23 west, presents a strange situation. So far it has drawn very little attention. Although two months old, only two wells have been started around it.

Some producers say the production is coming from the lime, which is given as the cause for such little interest in the well. (Oklahoma operators still have vivid memories of lime wells in the Ranger field in Texas.) Again the Beckham County well is many miles from a pipe line, also many miles from supply centers and the like.

Whatever the cause, Beckham County and its one small wildcat producing well have not caused a ripple on the surface of the petroleum industry.

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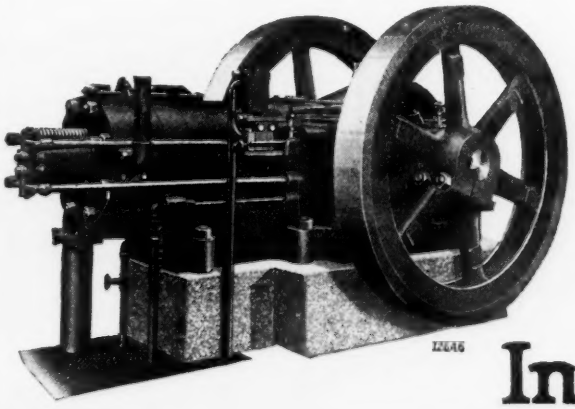

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24-SOE

Company, Well, Location	Initial Production Bbls.	Depth
Okfuskee County—		
Amerada Pet. Corp. Harjo 3, SEc NE NW 13-12-11	200	2660
Barbara Oil Co. Barnett 1, SEc NE NE 2-10-11	*	3020
Gypsy Oil Co. Brooks 1, SEc SW NE 2-10-9	350	3065
Robinson & Letcher Barnett 1, C W L SE SW 24-11-11	25	2415
Waggoner County—		
Parshall Oil Co. Cane 1, NWc SW SW 30-17-18	*	1200

NORTH OKLAHOMA COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Osage County—		
Carter Oil Co. 14, C NE SE SW 31-27-6	50	2890
Cosden O. & G. Co. 13, C SW NE NW 8-26-6	250	2950
4, NEc SE NE NW 20-24-9	35	2170
Flesher Pet. Co. 4, C S L SE 1-22-9	10	1995
L. Friedman 9, C SW NW SE 6-26-6	300	2885
Gardner Pet. Co. 2, NW NE 12-26-5	50	2920
Gypsy Oil Co. 5, C NW SW NW 29-27-6	500	2965
Laurel O. & G. Co.:		
13 SW NW 1-26-5	100	2970
15, C SW NW NW 1-26-5	1350	2970
Midland Oil Co.:		
3, C NE SW NW 15-26-6	75	2915
4, C NE NW NW 15-26-6	35	2910
5, SE NW NW 15-26-6	750	2910
Owen Osage Oil Co. 64, SEc 29-24-12	*	1905
Oklahoma Gas Co. 608, C SW NE NE 11-21-10	*	2150
Phillips Pet. Co.:		
8, NEc SE NE 23-25-11	*	1780
9, NEc SW NE NE 23-25-11	25	1775
Phillips & Skelly:		
6, NE NW NE 7-26-6	150	2870
6, C SE SW SW 25-27-5	200	2990
12, C NW SW NW 25-27-5	300	3010
Producers & Refiners 16, C S L NW 31-27-6	625	2950
Rex Pyramid Oil Co. 38, C S L N½ S NE 34-22-10	75	1920
Roxana Pet. Co.:		
11, C SE NE SW 4-26-6	50	2800
12, C SE NW SW 4-26-6	500	2805
Sinona Oil Co. 15, SEc SW SE 27-22-10	*	2040
Test Log Oil Co. 1, C S L SE 11-24-9	*	2220
St. Jermain Oil Co. 2, SWc NE 6-24-11	*	1715
Sinclair Oil & Gas Co.:		
11, C NW NE NW 33-27-6	250	2985
12, C NE SW NW 33-27-6	450	2965
Tidal Osage Oil Co. 15, C W L NW 30-27-6	425	2975
Noble County—		
Blackwell O. & G. Co. Ruzek 1, SEc NW 3-24-1w	100	2150
Comar Oil Co. Ruzek 2, C NW NW SE 3-24-1w	1000	2150
McCaskey & Wentz Eastman 1, NWc SW 14-24-1w	*	2125
Southwestern Pet. Co.:		
Murray 4, NEc SE NW 10-24-1w	*	2165
Murray 17, SEc NE SW 10-24-1w	*	2025
Pawnee County—		
Robert De Long Colburn 1, C E. L. NE SW 19-20-8	*	1100
Kanola Oil Co. et al Colburn 1, C E L NE SE SW 19-20-8	1000	2470
John Markham Jr. School Land 1, SEc NW 36-20-7	*	3600
McMann Oil & Gas Co. Barnett 2, C NE NE NE 1-19-8	100	2910
O. P. & R. Armstrong 1, C S L SW NW 3-20-7	*	3400
Kay County—		
Pennok Oil Co. Endicott 2, SEc 34-25-1w	¶75	1635

SOUTH OKLAHOMA COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Carter County—		
Amerada Pet. Corp. Westheimer 1, SWc SE NW 28-5s-1e	*	3930
Magnolia Pet. Co. Hefner 5, C SW NW NE 27-2s-3w	¶18	2355
Skelly Oil Co. Cruce 6, C NW SW 16-4s-2w	75	2315
Venland Oil Co. McKinstry 1, NWc SW 6-5s-3w	*	1620
Garvin County—		
McLaughlin et al Douglas 3, NEc NW NE 14-1n-3w	50	1460
Magnolia Pet. Co.:		
Gibson 2, NEc SE NE SE 10-1n-3w	50	1505
Harris 1, NWc SW SE 16-1n-3w	*	2300
Cowan 8, SEc NE 15-1n-3w	*	2375
Stephens County—		
Atlantic Oil Prod. Corp. Stitsh 1, C NW NE SW 3-1n-17w	*	2500
Cline Oil Co. unallotted 1, SWc SE SW 27-1e-8w	*	2465
Forrest et al Johnson 4, NEc SE SW 18-1s-8w	¶35	2170
Healdton O. & G. Co. Arms 4, SEc NE SE NW 26-1s-5w	10	540
David Malone Petwee 2, NWc SE 20-1s-8w	*	2175
North Am. Oil Co. Nigh 3, NEc NW NE NW 34-1s-8w	75	2245
Redd et al unallotted 1, SWc 1-1n-5w	25	965
Roxana Pet. Corp. Speer 2, SWc SE NW 32-1n-8w	20	2410
Ware-Hawk-Ball O. C. Leonard 1, SWc NW SE SW 6-1s-8w	*	2440
Caddo County—		
Homa Okla Oil Co. School Land 4, NWc 13-5n-9w	*	2305

Gypsy Gets Big Well Which Means Slight Extension of Burbank Pool

TULSA, OKLA., Sept. 19.—After a shot of 140 quarts at 2968 feet the Gypsy Oil Company's No. 4, located in the southwest corner of the southeast quarter of 19-27-6, made 1690 barrels of oil in twelve hours.

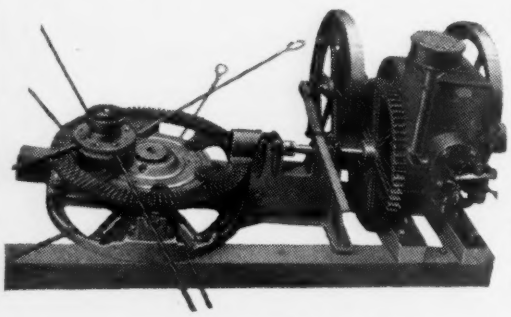
This well was completed Monday night and flowed 1600 barrels in 24 hours before being shot. It is located on acreage bought at the June sale of Osage leases and is one location further north than any previous production at Burbank.

Well No. 2, which is two locations to the east in the same quarter, is flowing 600 barrels daily with drilling operations still being carried on. This well will likely be shot when completed.

The Phillips and Skelly interests have a 1000-barrel well at Burbank in the southwest corner of the northeast of 29-27-6. It is also on acreage purchased at the last sale.

These wells are among the largest ever completed at Burbank and indicate some big flush production from other wells drilling on the acreage recently acquired.

Lightning No. 1 Power



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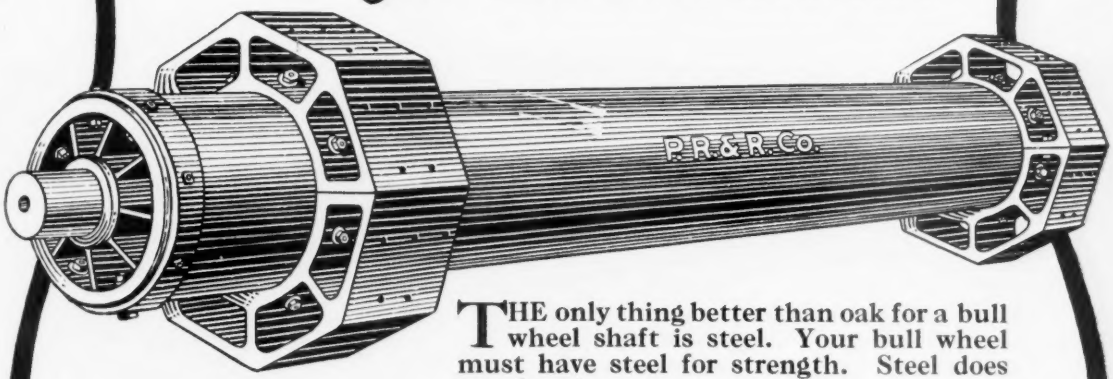

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KANSAS PRODUCTION

Independence, Kan., Sept. 20.—Production in the Kansas fields showed a daily average as follows last week:

Field—	Barrels
Augusta	21,000
El Dorado	19,900
Elbing-Peabody	17,250
Covert and Florence	10,000
Other Fields	21,450
Total	90,600
Last Week	91,000

KANSAS COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Butler County—		
Colen & Neff Weaver 1, SEc NE NE SW 1-28-5e	*	2770
Derby Oil Co. Snodgrass 5, SWc NE SE 19-27-6e	150	2710
Great Southern et al:		
Dickinson 26, NEc SE SW 16-26-8e	25	2490
Dickinson 27, C W L NW SW 16-26-8e	50	2515
Blankenship 2, NWc SE SE 17-26-8e	50	2670
Intersea Service Corp. Blankenship 2, SEc NW SE 17-26-8e	60	2640
T. C. Johnson Palmer 1, NEc NW NE 30-27-6e	*	2810
Jordan & Smith Lipse 1, SWc SE 5-27-5e	*	2800
Lewis Oil Co:		
Bunnell 7, NWc SE NW 26-28-5e	25	2790
Haver 4, NEc NE NE 25-29-5e	20	2810
Brown 12, NEc NW SE 36-29-5e	*	2735
R. G. Malter Krammer 1, SWc 26-29-7e	*	3105
Mogul Oil Co. Price 8, C NE SW 12-29-5e	50	2840
Nat. Ref. Co. Clark 4, NWc NE 35-20-5e	625	2800
Phillips Pet. Co. Sigler 3, SEc NW SE 29-27-6e	300	2725
Phillips Pet. Co. Hazlett 1, SEc 1-24-4e	200	2478
Tidal Oil Co. Bunnell:		
1, SWc NW NW 26-28-5e	250	2810
2, NWc SW NW 26-28-5e	200	2810
3, NEc SW NW 26-28-5e	150	2780
Toole et al Poole 1, NEc NW NE 34-28-5e	*	2825

Phillips Petroleum Company Has Producer in Butler County Wildcat

AUGUSTA, KANSAS, Sept. 20.—When put on the pump early this week the wildcat well of the Phillips Petroleum Company in southeast corner of section 1-24-4 east Butler County, Kansas, made 1000 barrels through four inch casing. This successful wildcat on the Hazlett fee is now the center of an intense drilling campaign in Kansas, with 11 rigs already going in.

Following the purchase of 400 acres by the Gypsy Oil Company last week, on which two wells were contracted, the Phillips company made seven locations, where wells soon will be drilling. The Gypsy has two locations awaiting the completion of rigs.

The rigs going in are as follows:

Phillips Petroleum Co., Wilson 1, Nwc SW SE 31-23-5; Davis 1, NEc 12-24-4; Davis 2, NWc NE Ne 12-24-4; Shapherd 1 NWc 7-24-5; Hazlett 2, SWc 6-24-5; Hazlett 3, NWc SW SW 6-24-5; Hazlett 4, SWc SE SE 1-24-4.

Gypsy Oil Company, Ruth Hazlett 1, SWc SW SE 1-24-4; Hazlett 1, SWc NW SW 6-24-5.

Marriam & Findiss Sproul 1, NEc SW 25-24-4.

Ramsey Lloyd Oil Co., Hazlett 1, SW NWc SW 52-4-5.

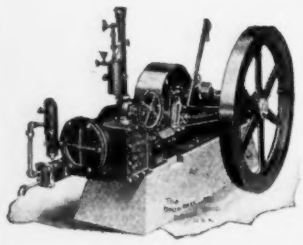
That this district, five miles away from other production, is looked upon with favor is shown by the manner in which producers are seeking acreage there. The Phillips Company had 2,500 acres around the well. As soon as it was complete, overtures were made to fee owners and lively bidding resulted. The Gypsy with other concerns outbid the Phillips Company and the race of making locations began.

The eleven rigs now being built are forerunners of many others to be built within the next two weeks.

Generally the Kansas fields had a big week, scoring 38 completions, of which 28 were producers. Many of these are small inside wells, which were completed some time back but just now appearing on scout reports.

There were 25 rigs announced for Kansas during the week, 16 being credited to Butler County. Of these, 11 shown above, are around the Hazlett well.

Company, Well, Location	Initial Production bbls.	Depth
Cowley County—		
Transcontinental Oil Co. Cooley 1, SEc NE 12-30-3e	*	3350
Greenwood County—		
Ann Oil Co. Milner 2, SEc NE SE 12-24-12e	100	1665
Atlantic Pet. Co.:		
Clinger 4, NEc SE NE 15-23-13e	10	1800
Clinger 5, NEc NW SE NE 15-23-13e	25	1820
Shambaugh 10, NWc 22-23-13e	15	1785
Butler et al Small tracts 1, SEc NE SE 34-25-10e	75	2520
Cosden O. & G. Co. Dalton 2, C SE SE NE 11-24-12e	10	1770
R. G. Gillespie:		
Ellis 1, NWc SE 13-24-12e	25	1710
Barnett 4, C NW NE 13-24-12e	25	1690
Swanson 5, SEc NW SE SE 26-23-13e	35	1720
Hardly Able Oil Co. Sample 3, SEc SW NE 35-25-10e	*	2860
Marshall Oil Co. Dame 1, C S L SE NW 12-2-12e	15	2685
Marshall Oil Co. Bennett 6, C E L NE NW 13-25-12e	25	1805
Rogers et al Houch 1, SEc SW SW NW 35-25-10e	*	2080
Ralco Oil Co. Shambaugh 8, NEc NW NE NW 22-23-13e	200	1635
Tidal Oil Co. et al Robbins 1, SEc SW SE SE 27-28-5e	15	2495
Woodson County—		
Manhattan Oil Co. Bahr 1, SEc NW SW 14-23-13e	*	1810
Mendenhall et al Elliott 2, SWc NE SW 14-23-13e	100	1820



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CENTRAL WEST TEXAS PRODUCTION

Fort Worth, Texas, Sept. 19.—The daily average production of the various fields in Central West Texas for the past week is divided about as follows:

STEPHENS COUNTY

	Barrels
Mid-Kansas Oil & Gas Co.	5,130
The Texas Company	3,820
Gulf Production Company	2,900
Prairie Oil & Gas Co.	2,810
Texas Pacific Coal & Oil Co.	1,740
Magnolia Petroleum Co.	1,390
Fensland Oil Company	825
Sun Company	740
E. A. Lendreth Co.	475
Sinclair Oil & Gas Co.	465
Fred B. Foster & Co.	150
Simms Oil Company	95
White Oil Corporation	80
Miscellaneous	14,620
Total	35,240
Last week	34,843

DESDEMONA AND PIONEER

Magnolia Petroleum Co.	960
Humble Oil & Ref. Co.	260
Mid-Kansas Oil & Gas Company	300
The Texas Company	440
Texas Pacific Coal & Oil Co.	230
Prairie Oil & Gas Co.	95
Sinclair Oil & Gas Co.	75
Sun Company	10
Miscellaneous (includes Pioneer)	8,390
Total	10,810
Last week	10,990

EASTLAND COUNTY

Texas Pacific Coal & Oil Co.	1,415
Prairie Oil & Gas Co.	1,145
Sinclair Oil & Gas Co.	1,060
Gulf Production Company	690
Magnolia Pet. Co.	435
Mid-Kansas Oil & Gas Co.	45
Sun Company	35
Miscellaneous	9,815
Totals	13,640
Last week	14,140

MISCELLANEOUS

Strawn-Palo Pinto County	1,820
Moran-Shackelford County	990
Brown County	660
Corsicana	540
Mitchell County	145
Thrall	135
Coleman County	85

EASTLAND COUNTY COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Samuels, West & McCandless G. W. Martin 2	50	3360
Yates Oil Co.'s Joe Burkett 3	75	3310

Dull Week in West Texas Fields; Palo Pinto Well Shows Some Oil

WICHITA FALLS, TEX., Sept. 19.—The past week has been rather dull in the Central West Texas district—Stephens and Eastland County—and the number of completions hold out nothing of more than usual interest.

In Stephens County, there were just three completions, only one of which had an initial production of as much as 500 barrels. The Mid-Kansas Oil & Gas Co.'s No. 11 G. W. Hill was completed for 500 barrels at 3220 feet, flowing natural. The next best well is the joint test of the Gulf Production Company and Fensland Oil Company's No. 9 Brown, which was good for 350 barrels at 3175 feet. Mahlstedt Mook Oil Company's No. 3 Baker after a shot of 50 quarts from 3160 to 3195 feet was good for about 110 barrels.

Snowden & McSweeney's No. 2 Jones in Stephens County is drilling around 3175 feet and producing at the rate of 150 barrels, while the same company's No. 3 Ashburner has oil and water standing in the hole after a shot at 3230 feet. The Texas Company's No. A-31 Parks has killed a gas flow and is drilling ahead at 1960 feet. The same company's Parks A-32 is showing both oil and gas at 2430 feet and is drilling ahead. Winterset Oil Company's No. 1 Lee, bridged after a shot of 1000 quarts at 3135 to 3180 feet and will be abandoned as it showed nothing.

In the Pioneer district in Eastland County, there were seven completions during the past week, one of which is a gasser. All of the completions were small ones, none showing more than 250 barrels initial. In the Ranger district, there were only two small producers in the completion list.

In Palo Pinto County, Owens & Burkett's No. 1 Gray-Sanger is showing for 2,000,000 cubic feet of gas at 3940 feet and is bailing with oil showing. The boiler is being moved back and storage erected. Palo Pinto had three small producers for the week and two holes abandoned. A large number of tests in the county are shut down for water or for other reasons.

Callahan County reported three producers for the week with five dry holes and one gasser. The new producers are from the shallow pay.

PIONEER COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Essary Drilling Co.'s townsite blk "21" 1	125	2485
N. Pherrick et al's Kersek 1	130	2500
Invincible Oil Corp.'s Nelson 2	¶	3040
T. A. Knight's J. L. Erwin 1	75	2500
Dumas et al's D. J. Armstrong 4	250	2490
McCamey, Sherrin, Dumas et al's Armstrong 4	250	2490
McCamey, Sherrin, Dumas et al's Armstrong 7	175	2520

STEPHENS COUNTY COMPLETIONS

Mahlstedt Mook Oil Co. Baker 3	110	3195
Gulf-Fensland Oil Co.'s Brown 9	350	3175
Mid-Kansas Oil & Gas Co.'s G. W. Hill 11	500	3220

STEPHENS COUNTY DRILLING REPORT

(Note—This report does not include wells shut down indefinitely.)

Agnew et al's Hudspeth, fsh bailer 1605 ft.

Buckeye Dev. Co.'s Walker 7, rig burned 2145 ft. Benson Drilling Co.'s Thomas 2, dr 1330 ft. Booles & Bartrug's W. W. Copeland 1, dr 2040 ft.

Channel Oil Co.'s Moon 1, dr 4155 ft.

Dawson & Davis' Cougher 1, sd for tools 3500 ft. Denson & Spurck's Black 1, fsh 2540 ft. Drake Oil Synd.'s Drake 1, dr 2760 ft.

Eliasville Pool Oil Synd.'s Douglas 1, sd for cas 3155 ft.

Fensland Oil Co.'s J. F. Brown 9, dr 3175 ft. Fink & McFarland's R. O. Jackson 1, showing gas, sd 2180 ft. Fred B. Foster Co.'s Shipley B-1, dr 3120 ft.

Glasscock Prod. Co.'s Cunningham 1, fsh cas 1440 ft.

Humble Oil & Ref. Co.'s Curry B-1, dr 2750 ft; Curry B-2, fsh 2115 ft; Curry B-3, dr 800 ft; Mrs. J. B. Hart 5, showing oil and gas 3260 ft. Hagaman et al's Hagaman 1, dr 3010 ft.

Illinda Oil Co.'s Walker & Caldwell A-3, set 6-in 3210 ft.

Johnson Oil Co.'s Jones 1, dr 3310 ft. King, Booth & Nesbit's Abney 2, dr 2275 ft.

Little et al's Humphreys 1, sd 3390 ft. Lee Oil Co.'s Walker & Caldwell 2, dr 2930 ft. Little Caddo Oil Synd.'s Mrs. J. B. Hart 2, dr 2810 ft. Livingston et al's Hodges 1, dr 1120 ft.

Maryland Drilling Co.'s Akin 1, dr 3310 ft, spraying some oil. Miller Bros.' W. T. Gurney et al 1, trying to shut off water 3900 ft. Mid-Kansas Oil & Gas Co.'s G. W. Hill (Acct. 1) 9, running cas 3745 ft; S. H. Hill 4, dr 1600 ft; Atkins (Acct. 1) 6, sd 1355 ft; Atkins (Acct. 1) 7, sd 815 ft; Lee 1, rig burned 3325 ft. Magnolia Pet. Co.'s J. M. Rush 10, dr 1960 ft; Rush 11, spudding; C. N. Guest 5, sd 2010 ft.

Pay-Tex Oil Co.'s J. M. Lane 3, fsh 3115 ft. Prairie Oil & Gas Co.'s T. L. Adams 1, fsh 3805 ft; A. A. Atkins 12, sd 1490 ft; T. M. Corbett 1-C, flowing 80 bbls after shot 3370 ft, co. Pennock Oil Co.'s Moore 1, ur 2510 ft; Jones 1, dr 1000 ft.

Roxana Pet. Corp.'s Corbett 1, dr 4360 ft. Roesner et al's Shipley 2, fsh 3155 ft.

Swensondale Oil Co.'s P. Swenson 21, dr 1900 ft, showing oil and gas. Settled Production Co.'s Keel 2, ur 2690 ft. Snowden & McSweeney's Jones 2, producing 150 barrels 3175 ft; Ashburner 3, 3230 ft, oil and water in hole, co after shot.

Texas Co.'s A-28 Parks, dr 3150 ft, showing oil and gas; Parks A-31, dr 1960 ft, killed gas; Parks A-32, dr 2430 ft, showing oil and gas; Curry 9, dr 2500 ft; Pierce 12, dr 3000 ft; Day 11, dr 2500 ft; Fite 1, sr 1700 ft; Heatley 3, dr 2775 ft; Houston 3, dr 2020 ft; Mrs. S. E. Wilson 2, sd 3485 ft; Womack 4, dr

1100 ft; Lauderdale 9, dr 2000 ft; Black Bros. 17, dr 2800 ft; Searcy 1, running cas 2850 ft. Texas Pacific Coal & Oil Co.'s T. L. Adams 5, dr 3450 ft; A. S. Veale 3, sd 3095 ft. Texas Consolidated Oil Co.'s Martin 3, fsh 2300 ft; Martin 4, fsh 2630 ft.

Winterset Oil Co.'s Lee 1, shot 1000 quarts 3135-3180 ft, bridge, dry and may abandon.

EASTLAND-RANGER DRILLING REPORT

Ardizzone & Braden Oil Co.'s W. C. Kincaid 7, dr 1780 ft.

Barkley et al's Wright 3, sd 3685 ft; Wright 4, rig.

H. R. Courtwright et al's Rosenquest 1, to abn 3795 ft; Kellett 1, dr 200 ft. Car-De-Zone Oil Co.'s L. R. Hough 2, fsh 930 ft; Agnes Harwood 1-A, fsh 670 ft; J. H. Latham 1, showing oil 3400 ft. Barney Carter's J. W. Langford 3, shows gas, dr 1775 ft. Cardinal Oil Co.'s J. A. Bovar 3, rigging up.

Drury Petroleum Co.'s T. E. Luse 1, rig burned 2840 ft. Day & Everest's W. F. Davenport 1, dr 3370 ft; A. F. Loftus 1, fsh tools 910 ft. Dougherty & Clark's Jacob Lyerla 1, sd for gas. G. A. Davidson's Jacob Lyerla 1, rig; T. P. Ry Co. 1, rig. Duquesne Oil Corp.'s J. L. Johnson 1, rig.

Eastland Oil Co.'s G. W. Martin 4, fsh 3160 ft; Martin 9, rig; Martin 10, timbers; Martin 11, set 12-in 960 ft; Joe Burkett 2, shot 140 qts 3265 ft. W. T. Eby interests' Paul Chastain 1, dr 1950 ft.

Garrett & Smith's T. L. Overby 1, dr 1100 ft.

Humble Oil & Ref. Co.'s M. B. Harris 2, dr 3525 ft; W. L. Miller 1, dr 3110 ft. W. D. Hassenfussee et al's Radford 1, sd 1810 ft.

Manly Drilling Co.'s Hillcrest addition 1, dr 3150 ft. McLester & Harris' Hillcrest addition 1, slight show oil, dr 3060 ft. Mastex Oil Co.'s Hill 1, sd 3520 ft. Miller Oil Co.'s Watson 1, sd 1580 ft. May & Clayton Drilling Co.'s Higginbotham 1, dr 2760 ft. Mock-Texas Co.'s Garrett 1, spudding.

New Southern Oil Co.'s W. J. Baumgardner 3, bothered with caving 3460 ft. Nixon Oil Co.'s C. T. Webb 1, sd for fuel 425 ft.

Plateau Oil Co.'s Owens 2, dr 780 ft; Owens 3, rig; J. R. Stubblefield 1, dr 200 ft. Porter & Livingston's Joe Burkett 1, dr 2900 ft. Panhandle Ref. Co.'s C. O. Owens 1, dr 400 ft; Owens 2, rigging.

Richie & Keudell's Clements 1, oil standing in hole from black lime 2915 to 2930 ft, td 2935 ft. Roberts interests' Roberts 1, fsh 3405 ft. Rumbaugh Drilling Co.'s J. R. Stubblefield 1, sd 3160 ft. C. M. Root's L. R. Hough 1, dr 1600 ft; Hough 2, spudding.

States Oil Corp.'s G. W. Martin 4, sd 3235 ft. W. I. Southern et al's J. B. Robinson 1, good show of oil 3380 ft. Sinclair Oil & Gas Co.'s J. W. Davis 6, rig. Slay, Simons & Smith's G. W. Rose 1, dr 2135 ft. Samuels, West & McCandless' G. W. Martin 3, dr 3340 ft. Marshall Spoonts' McClesky 1, dr 1450 ft.

Texas-Iowa Oil Co.'s J. C. Laney 1, sd making 3,000,000 ft gas, td 2650 ft. Tex-Land Oil Co.'s C. U. Connellee 1, dr 1100 ft. Texas Pacific Coal & Oil Co.'s W. T. Harker 4, rig; Meadows 12, rig; Meadows 13, rig.

Leon Pepperberg Heads Geological Association

Dallas, Texas, Sept. 17.—Leon Pepperberg of Dallas was elected president of the Southwestern Geological Society at the close of the annual two-day convention here today. Other officers elected include C. M. Bennett of Shreveport, La., first vice president; J. W. Beede, Bartlesville, Oklahoma, second vice president; Dr. H. P. Bybee, Austin, Texas, secretary, and R. B. Whitehead of Dallas, re-elected treasurer.

J. P. D. Hull of Shreveport, Louisiana, and L. E. Kennedy of Muskogee, Oklahoma, were elected members of the executive council, of which Dr. E. H. Sellards of the university of Texas faculty, who is the retiring president of the society, automatically becomes a member. F. W. Shuler of the Southern Methodist University, Dallas, and John G. Bartram of Ardmore, Oklahoma, are the other members of the council.

Following the business meeting of the society, the executive council authorized the publication of the annual report of the society and the secretary was instructed to publish reports of the meetings of the six sectional groups. The secretary was authorized to compile a map showing the important localities of fossils in the Southwest.

A number of papers on technical subjects relating to geological conditions of various parts of the southwest, and the summer field work of the geology department of the University of Texas was explained.

Frank Vance et al's C. Owens 1, spudded and sd.

Westland Synd.'s J. R. Stubblefield 1, sd for water 2060 ft. Weatherall Prod. Co.'s Fulfer 1, dr 3200 ft; Fulfer 2, sd 185 ft.

PIONEER DISTRICT DRILLING REPORT

Alsworth et al's Ribble 1, spudded and sd.

A. D. Cockrell et al's Marshall 1, spudded and sd.

Davis et al's townsite blk. "21" 1, rig. Davidor Dev. Co.'s Anderson-Bowden 1, sd for water 200 ft. Dyer Bros.' E. M. Curry 1, spudded and sd. Drury Petroleum Co.'s townsite blk "33" 4, sd for casing 2290 ft.

Humble Oil & Ref. Co.'s Black 1, making 5,000,000 ft gas, dr 2475 ft; Dill 1, dr 2700 ft.

Junior Oil Co.'s Webb 3, sd 2350 ft. Mayemack Oil Co.'s King 1, spudded and sd. C. B. McBride et al's Brown 1, rigged and sd; Maxwell 1, sd 1060 ft. Miller & Malloy's Shirley 1, rig down; Pfler 1, rig. Montgomery Bros. and Ray Radford's dr 1500 ft. McBride & Perry Oil Co.'s Morgan 1, to abn 630 ft. M. L. May's townsite blk "20" 1, show of oil and gas 2460 ft. McCamy, Dumas et al's Armstrong 5 and 6, lcns; Armstrong 7, dr 1300 ft; Armstrong 8 and 10, lcns; Brooks 1, dr 2300 ft; Mrs. Ora Moore 2, dr 2400 ft; Moore 3, fsh 960 ft; Moore 4, dr 2300 ft; Moore 6, lcn; Johnson 1, sd 1133 ft. Forest Miracle Oil Co.'s King 1, sd for cas 1770 ft; King 2, dr 1100 ft.

Pacific & Gulf Oil Co.'s Flippen 1, sd 615 ft. Pioneer Pet. Co.'s Baird 1, sd 1715 ft; L. King 3, dr 1000 ft; King 4, dr 530 ft. Pittsburgh-Western Oil Co.'s Puett 3, rig. Pioneer Syndicate's Jacobs 1, dr 1435 ft. Pathfinder Oil Co.'s townsite blk "23" 1, sd 1680 ft; Mrs. Ora Moore 1, dr 2100 ft; Moore 2, dr 2300 ft; Moore 3, dr 2100 ft. Pioneer Proven Oil Synd.'s Anderson 1, dr 1100 ft. Pioneer States Oil Co.'s townsite blk "27," dr 1200 ft.

Rainbowend Oil Co.'s D. J. Armstrong 4, set 6-in 2265 ft; Harris 2, rig. Revere Oil Co.'s Cunningham 1, set cas 1600 ft.

T. B. Slick's Sheppard 1, fsh 745 ft; Sheppard 2, dr 320 ft. States Oil Corp.'s W. R. Smith 3, slight show oil 2450 ft; W. R. Smith 4, spudding. R. E. Sweeney's townsite blk "22" 1, making gas and 150 bbls oil 2460 ft.

Texas Pacific Coal & Oil Co.'s C. P. Brannon 2, set cas 2475 ft; Judge Scott 2, rig; G. B. Saucier 1, rig. Texas Co.'s Cook 3, rigging.

A Limestone Diamond Drill Core 10 ft. Long

Proving Oil Structure With Sullivan Diamond Drills

Modern methods of testing oil bearing formation call for exact information on geological conditions. The various strata must be identified beyond question and elevations must be determined. A diamond drill core of the formation is a perfect record. Oil sands in this formation may be examined and analyzed for porosity and oil contents. High expensive derricks are unnecessary and casing costs are low. There is no "guess work" and sealing off oil sands is avoided.

One Oklahoma Producer has six Sullivan Diamond Drills on structure testing

Write for new booklet 4269-0 on Oil Drilling

SULLIVAN MACHINERY CO.

Western Indemnity Building
Dallas, Texas

North Texas Operators Look to Montague County as Likely Place for New Field

WICHITA FALLS, TEXAS, Sept. 19.—Operators of North Texas are looking to Montague County for the next field for the district. That the indications are thought to be good is proved by the action of many operators and the larger companies in securing acreage in the general vicinity of the bend in Red River, it being said that the general lay of the land is similar to that in Wichita County in the bend of the river where millions of barrels of oil have been taken from the ground.

S. L. Fowler et al are drilling on the Fowler Ranch below 1000 feet, while in that general vicinity the Petroleum Producers Company's J. W. Maddox 1 is a shut in gas well at 845 feet. The Texas Company has shut in its gas well at 762 feet and is drilling No. 2 Lemons for gas. When No. 2 is finished, gas will be used for No. 1 to drill deeper for oil. Most of the available acreage several miles of the drilling wells is under lease and recently Humphreys interests secured leases on several tracts.

Back in 1919 it will be remembered that the Nocono Oil and Gas Company had a well that swabbed oil at 2340 feet, but the hole was in bad shape and finally it was abandoned as they could not get a casing seat. The territory drawing attention is north of Nocono.

The completion of a well at 1260 feet by Steelsmith & Orth on the B. Parker tract east of the old K. M. A. pool and about one and a half miles southwest of the Matt'e Parker pool seems to indicate that Wichita County is to have a new pool. The well found the pay about 1260 feet and is said to be good for around 50 barrels a day. The well is near other wells producing from the 600 to 800 foot level. It is understood that several other wells are to be drilled to the deeper pay found in the new well.

In Archer County, two wells have found a shallow sand about two miles northeast of Mankin. F. & H. Syndicate's No. 3 Ferguson has a good looking sand at 565 feet and is bailing for a test. Staley et al's No. 2 Kemp and Kempner has a similar sand at 560 feet and is now testing. In the same section Staley et al are standardizing a test at 1445 feet. F. & H. Syndicate has two producers in this section, producing from a sand found at 1440 feet.

In Carson County, Silk et al's S. B. Burnett 1, has a 250-barrel well on the pump at 3075 feet, which is located about half a mile south of the Gulf's No. 2 Burnett, which was completed for around the same production. The Gulf has made a location for another test in Carson County and it is understood that Silk will also make another location shortly.

NORTH TEXAS FIELDS

NORTH TEXAS PRODUCTION

Wichita Falls, Texas, Sept. 19.—The daily average production of the various North Texas fields for the past week is divided as follows:

BURKBURNETT

	Barrels
Magnolia Petroleum Co.	3,065
Gulf Prod. Co.	1,450
The Texas Co.	1,435
Panhandle Refining Co.	700
Oklahoma Pet. & Gas Co.	615
McMan Oil Company	580
Texhoma Oil & Refining Co.	575
Lewis Oil Corporation	575
American Refining Co.	475
Middle State	450
Skelly Oil Co.	450
White Oil Corporation	105
Miscellaneous	18,000
Totals	27,900
Last Week	30,950

ELECTRA

	Barrels
The Texas Company	6,880
Empire	4,065
Magnolia Petroleum Co.	3,000
Hobbs Oil (Middle States)	2,125
Griswold Oil Co.	1,310
Gulf Production Co.	1,165
Fort Dearborn Oil Co.	135
Panhandle Refining Co.	105
Humble Oil & Refining Co.	90
Miscellaneous	4,647
Totals	23,510
Last Week	25,295

MISCELLANEOUS PRODUCTION

	Barrels
Holliday-Archer County	3,000
Kemp-Munger-Allen Field	2,310
Iowa Park	670
Petrolia	365

YOUNG COUNTY PRODUCTION

	Barrels
Roxana Petroleum Corporation	1,100
Ralco Oil Company	900
Penn Cities Oil Co.	760
Fred B. Foster & Co.	600
Cosden Oil & Gas Co.	575
Panhandle Refining Co.	510
The Texas Co.	400
Seaboard Oil & Gas Co.	320
Conner et al	280
Oklahoma Pet. & Gasoline Co.	265
Emerich Oil Co.	260
Godley Oil Co.	250
Eureka Producing Co.	230
Elk Basin Consolidated Pet. Co.	210
Simms Oil Co.	200
Betrand et al	190
Miscellaneous	3,950
Totals	10,000
Last Week	10,000

ELECTRA COMPLETIONS

Company, Well, Location	Initial Production Bbls.	Depth
Cumley & Wharton's G. Jennings 2	*	2000
Hartford Trust's S. B. Burnett 2	5	1800
Hill & Jones' W. T. Waggoner 1	*	1586
Mona Marie Trust Co.'s T. W. Roberts 6	†	895
Prime Oil Co.'s H. Munger 1-B (K-M-A Field)	*	1635
The Texas Co.'s:		
G. Skinner 28	*	2015
W. T. Waggoner 226	35	1925

YOUNG COUNTY COMPLETIONS

Company, Well, Location	Initial Production Bbls.	Depth
Canadian Pacific Oil Co.'s McBrayer 1	*	2500
Spoontz et al's O. D. Lisle 1	*	3300
Burton & Burton's River Bed 1	250	2345

BURKBURNETT COMPLETIONS

Company, Well, Location	Initial Production Bbls.	Depth
L. P. Hammond, Ferguson 1	15	1570
Mag. Pet. Co. Hugh Reilly 77	12	1425
Texhoma Oil & Ref. Co. Mrs. M. J. Powell 24	*	1275
Stump Oil & Gas Co.'s Cropper 10	6	1875

YOUNG COUNTY DRILLING REPORT

Andrede et al's W. W. Storm 1, dr 400 ft.

Barnes Production Co.'s G. F. Parsons 1, dr 1450 ft. Bertrand et al's Whittenberg 3, plugging back to 2025 ft drilled to 2100 ft; Wergess 1, co to shoot 3040 ft. Brahaney Bros' I. R. Grantham 1, dr 2770 ft. C. W. Brooks' S. L. Ribble 1, set cas 4080 ft. Buchanon et al's Whittenberg 1, dr 2990 ft. Burton et al's J. J. Fawks 1, dr 900 ft. H. Byren's Mahoney 1, swedging cas 3935 ft.

Ray Colcord et al's J. Kisinger 2, dr 85 ft. Collett et al's T. C. Greenwade 1, dr 4275 ft, making 2,000,000 ft gas. Colpenn Prod. Co.'s J. L. Rhodes 1, ur 2280 ft; Rhodes 2, dr 775 ft. Cosden Oil & Gas Co.'s J. M. Askew 4-1, testing 1982 ft. Crawford & Harrison's J. Kisinger 1, testing 3045 ft.

Detroit Mexia Oil Co.'s J. T. Cotton 1, dr 3600 ft. Duquesne Oil Corp.'s R. M. Williams 1, dr 1100 ft.

Elk Basin Consolidated Pet. Co.'s J. A. Driver 11, dk.

Fred B. Foster & Co.'s L. L. Durham 1, co after shot 3970 ft; C. F. Parsons 1, dr 2860 ft; and Whittenberg 1, dk.

Gulf Production Co.'s Grantham 1, fsh 3650 ft; Grantham 2, preparing to shoot 3700 ft; and J. M. Askew 2, dr 3000 ft.

Hemphill et al's W. A. Corbett 1, dr 3600 ft. L. C. Heydrick et al's Church Lot 1, dr 2715 ft.

C. A. Julian et al's I. R. Grantham 1, dr 1550 ft.

Leader Oil Co.'s M. R. Jarnagin 1, co 2726 ft. Lewis et al's C. Grantham 1, rigging up.

McKinzie Oil Co.'s T. C. Greenwade 1,

sd 3975 ft. Maden & Maden's F. Herron 1, shot 40 qts 2990 to 3015, no results, td 3020. Mahlstedt Mook Oil Co.'s R. M. Williams 4-A,straightening hole 1310 ft; J. S. Williams 2-B, dr 2710 ft. Mann et al's Whittenburg 4, sd 1870 ft. Miller Horner et al's F. Herron 3, fsh 2500 ft. D. Miller's F. Herron 1, dr 1640 ft. Mexia Star Oil Synd.'s N. B. Carter 1, dr 85 ft. Monroe Oil Co.'s J. M. Askew 3, lcn; Mary Cox 1, set cas 2600 ft; Jefferies 1, dr 2540 ft; G. F. Parsons 1, sd 2670 ft; G. Stewart 1, sd 50 ft.

Nash & Windfohr's R. M. Williams 2, dr 1750 ft; Williams 3, dr 1315 ft. North American Ref. Co.'s B. F. Scott 8, dr 2100 ft; W. M. McCow 1, dr 2330 ft.

O'Tex Oil Co.'s C. F. Parsons 1, dr 1550 ft.

Penn Cities Oil Co.'s F. Herron 3-A, dr 1315 ft; Herron 3-B, preparing to dr deeper, 2415 ft, making 100 bbls; Herron 1-D, dk; Herron 2-D, dr 1000 ft. Prairie Oil & Gas Co.'s W. W. Storm 1, dr 1450 ft.

Ralco Oil Co.'s Roark 3, dk; J. A. Driver 8, dr 2860 ft; Driver 9, dr 180 ft. Revere Oil Co.'s J. L. Bratcher 1, set cas 600 ft; Costello Bros. 1, dr 4045 ft; Costello Bros. 2, dr 2040 ft. Roxana Pet. Corp.'s E. N. McCluskey 1, dr 4150 ft; W. C. Bunger 1, dr 2360 ft; Whittenburg 1, dr 2515 ft; and B. F. Scott 6, dr 3150 ft.

Shamrock Oil Co.'s J. A. Driver 1, dr 1900 ft. Simms Oil Co.'s A. L. Lynn 2, dr 4050 ft. Sinclair Oil & Gas Co.'s J. Kisinger 1, dr 4160 ft. Snowden & McSweeney's J. J. Shirley 1, dr 3600 ft. Southland Oil Co.'s J. Hughes 1, sd 3030 ft; F. Herron 1, rig. Standard Pet. Co.'s McBrayer 1, fsh 3770 ft. Sun Co.'s Whittenburg 1, dr 3400 ft; C. E. Ferguson 1, sd 1710 ft.

Tex-Northwestern Oil Co.'s Wilson-Copeland 1, straightening hole 815 ft. The Texas Co.'s J. Jones 2, dr 2425 ft; Jones 3, dr 110 ft and Jones 4, dr 1500 ft. Tuloma Oil Co.'s A. M. Graham 1, co after shot 4275 ft. C. R. Tyrell Oil Corp.'s J. S. Williams 1-C, dr 2618 ft; Williams 2-A, DD 2700 ft; Williams 3-A, dr 1750 ft; Williams 4-A, rigging up; Williams 5-A, lcn; Williams 6-A, dk; Williams 7-A, dr 2050 ft; Williams 9-A, dk; Williams 10-A, dk; River Bed 1, dr 2150 ft; R. M. Williams (Acct. 1) 1, dr 1750 ft; J. A. McLaren 1, dk.

Union Oil Co.'s J. M. Askew 2, dr 900 ft; I. R. Grantham 1, dr 2615 ft.

Wells & Spellings' F. Herron 2, dr 1900 ft; H. P. Young 1, dk. Whitehead et al's F. Herron 1, dr 800 ft; Herron 2, dr 2840 ft. Whitehead & Tidwell's F. Herron 1, lcn.

Young County Drilling Co.'s A. E. Foster 1, dr 4000 ft.

ELECTRA DRILLING REPORT

Abah Synd.'s H. Munger 8, (K-M-A Field) dr 400 ft. Associated Oil Co.'s L. P. Douglass 1, co 480 ft.

M. J. Bashara's G. B. Ancell 1, sd 1800 ft. Bridwell & Heydrick's W. T. Waggoner 16, dr 2200 ft; Waggoner 17, sd 50 ft. Buchanan & Lyons' Mrs. G. Jennings 1, sd 1825 ft. Buffalo Texas Oil Co.'s W. Parker 1, sd 1900 ft.

Camp Oil & Gas Co.'s H. A. Overall 2, co 1950 ft; L. P. Douglass 1-A, dr 2030 ft; Douglass 1-B, sd 1000 ft. Carter & Fines' J. H. Fisher 1, dr 720 ft. Cline Oil Co.'s Waggoner 2-A, sd 1920 ft; Waggoner 3-A, sd 1930 ft; H. Munger (K-M-A Field) 10, set cas 1600 ft. Clover Oil Co.'s Waggoner 2, dr 1860 ft; Waggoner 3, dr 300 ft; Waggoner 4, dr 460 ft. Culberson et al's J. & J. Waggoner 12, dr 1390 ft. Cumley & Wharton's Fisher 1, dk.

Empire Gas & Fuel Co.'s S. B. Burnett 35, pulling liner 960 ft; Burnett 56, rigged up and sd; Burnett 57, sd 400 ft; Burnett 60, sd 1450 ft; Burnett 65, sd 1920 ft; Burnett 66, sd 1955 ft; Burnett 67, sd 1930 ft; Waggoner 8-A, dk.

Fitzgerald Synd.'s W. T. Waggoner 3, sd 1510 ft. Fred B. Foster & Co's Throckmorton 1, sd 1820 ft.

Green & Dale's Beaver-Electra Ref. Co. 3, dr 322 ft; Beaver-Electra Ref Co. 4, dr 1450 ft; Beaver-Electra Ref Co. 5, dk. W. J. Green's Mrs. G. Jennings 1, sd 300 ft. Griswold Oil Co.'s Burnett 28, rigging up; Burnett 29, dr 985 ft; Burnett 30, dr 400 ft; Burnett 13-B, dk; Waggoner 1-A, dr 1680 ft. Gulf Production Co.'s E. A. Dale 1, set cas 1470 ft; G. Jennings 5, dk; G. Jennings 6, dr 1900 ft; L. P. Douglass 4-B, dr 1330 ft; Burnett 12-C, pumping to test 1950 ft may abn; J. D. Melton 4, dr out plug 1676 ft; Waggoner 1-E, dr 1700 ft.

Hachaday & Shaw's Waggoner 2-C, dr 400 ft. Harper et al's J. & J. Waggoner 1, sd 1200 ft. Harrell et al's Mrs. G. Jennings 1, sd 2015 ft; Jennings 2, dr 200 ft. Harvey et al's W. T. Waggoner 3, lcn; Waggoner 10, dr 1740 ft. Hegwood et al's Waggoner 2, set and cem cas 1840 ft. Houston Oil Co.'s W. T. Waggoner 4, set cas 1600 ft. Hub Oil Co.'s Kemp & Newby 9, sd 1010 ft. Humble Oil & Ref. Co.'s Waggoner 4-B, dr 1280 ft; J. & J. Waggoner 1, dr 1980 ft. T. F. Hunter et al's J. & J. Waggoner 2, preparing to dr deeper 1530 ft; Waggoner 3, rigging Star 1830 ft.

Jefferson Oil Co.'s J. & J. Waggoner 3, dr 500 ft.

Kellogg Oil Co.'s J. A. Watkins 1, set cas 770 ft. Kemp et al's J. & J. Waggoner 1-B, sd 1980 ft. K.M.A Oil Co.'s H. Munger 17, std 1738 ft. Kimble et al's L. P. Douglass 1, sd 710 ft. Kruger et al's Waggoner 3, lcn.

Ladd & Hannon's Waggoner 1-A, pulling cas 1480 ft. Lewis Oil Corp.'s W. T. Waggoner 2, dr 660 ft.

McDaniels et al's L. P. Douglass 2, dr 1190 ft. Stanley McGregor's J. & J. Waggoner 2, dr 1240 ft. McKenna & Moore's W. T. Waggoner 1, sd 2050 ft; Waggoner 2, dr 650 ft. Magnolia Pet. Co.'s J. C. Duke 7-A, ur 950 ft; G. B. Ancell 1, moving in tools; H. & T. C. 56, dr 1330 ft; H. & T. C. 58, dk. R. L. Moody's Hearn & Hines 1, sd 310 ft. Mutual Oil Co.'s S. B. Burnett 1, sd 1665 ft.

Noble Oil & Gas Co.'s Woodall 1, dk. Noel et al's Waggoner 1, sd 640 ft.

J. S. Owens' J. F. Mitchell 1, dr 1936 ft. O'Donohoe et al's T. W. Roberts 1, sd 915 ft. J. O'Neil's Waggoner 2, sd 800 ft; Waggoner 4, dr 1145 ft; and Waggoner 5, dr 100 ft.

Pathfinder Synd.'s W. T. Waggoner 1, sd 1100 ft; Burnett 7, set cas 1400 ft; Waggoner 10, sdtr 470 ft; Waggoner 11, sd 100 ft. Wm. Peoples et al's A. C. Henson 3, sd 1455 ft. Prime Oil Co.'s H. Munger 1-C, (K-M-A Field) dk. Prince Bros' A. C. Henson 1, sd 1760 ft.

Rio Bravo Oil Co.'s W. T. Waggoner 10-E, dr 100 ft. Rotary Drilling Co.'s Allingham 1, sd 980 ft; S. B. Burnett 1, sd 200 ft. Ryan Pet. Co.'s G. E. Nance 9, (K-M-A Field) ur 1000 ft.

Shamrock Oil Co.'s W. T. Waggoner 8, sd 1530 ft. Sooner Oil Assn's T. W. Roberts 1, sd 925 ft; Roberts 6, set cas 1580 ft. Swan Pet. Co.'s C. A. Peterson 1, sd 2200 ft. Steelsmith & Orth's B. Parker 1, testing 1262 ft, estimated 100 bbl well.

Texas Chief Oil Co.'s H. Munger 3, (K-M-A Field) dr 1120 ft. Texhoma Oil & Ref. Co.'s J. & J. Waggoner 1, sd 1930 ft; W. T. Waggoner 1-B, dr 415 ft. Texland Oil Co.'s J. & J. Waggoner 2, dr 980 ft. The Texas Co.'s E. Evert 1, sd 1530 ft; W. T. Waggoner 219, dr 1875 ft; Waggoner 221, plugging back 1025 ft; Waggoner 237, co 1925 ft; Waggoner 239, set cas 1925 ft; Waggoner 240, set cas 1940 ft.

Wakefield et al's Waggoner 2, sd 750 ft. Waggoner & Green's H. Munger 10-C, (K-M-A Field) dr 800 ft. Wichita Pet. Co.'s S. B. Burnett 60, dr 1680 ft; Burnett 72, dr 1510 ft; Burnett 75, dr 1440 ft; Burnett 76, straightening hole 1875 ft; Burnett 77, sd 400 ft.

BURKBURNETT DRILLING REPORT

Bleakley & Kinnison's Rexford 7, dk. Buffalo-Texas Oil Co.'s Parker 1, sd for water 1895 ft. Burkburnett Deep Test Oil Co.'s J. R. Sullivan 1, dk. Baldwin Bros' Kennedy 2, dr 1800 ft.

Camp Oil & Gas Co.'s A. F. Dodson, dr 900 ft. Culberson & Orth's Parker 1, to pump, 1250 ft.

Dixon Synd.'s Roller 2, dr 875 ft. Jack Dow et al's Horton 1, set cas 1610 ft.

H. A. Erwin et al's Sides 1, dr in 1300 ft. H. R. Ellwood's Nix 2, sd 870 ft.

Grayce Oil & Ref. Co.'s Daniels 3, setting cas 1275 ft.

Humble Oil & Ref. Co.'s Schulz, 26, dr 1350 ft.

Kansas & Gulf Co.'s Schmiseur 6-A, dr in 1725 ft.

Lewis-Judson Oil Co.'s No. L. & M. Dodson, sd for Star machine 1010 ft; Camp-Dodson 13, dk down. Lenning et al's Cropper 11, dr 600 ft.

Magnolia Pet. Co.'s Anderson 12, dr 1700 ft; Dodson 9, lcn; Reilly 78, dr 500 ft; Roller 39, 40 and 41, lcns; Staley 38, lcn; Staley-Beach 39, ur 1090 ft; Franklin-Cropper 5, rigging up star, 1355 ft. Masset et al's Ramming 1, sd 1455 ft. McNeilly et al's Ramming 1, sd 920 ft.

Chas. F. Noble Oil & Gas Co.'s Woodall 1, dr 1800 ft.

Patton et al's Waggoner 8, rigging to pump 1875 ft. Progressive Production Co.'s Roller 13, sd 1035 ft. Wm. Priddy's Birk 8, dr in 1660 ft; Birk 9, testing 1845 ft; Birk 10, dr 1840 ft.

Stump Oil & Gas Co.'s Cropper 12, sd 1260 ft. J. I. Staley's fee 1, rigging to pump, 1860 ft. Swan Petroleum Co.'s Peterson 1, preparing to dr to 2500 ft, td 2135 ft.

Houston, Texas, Sept. 19.—O. W. Young and Pittsburgh interests made a location about 12 miles south of Lufkin in Angelina County on Eunice Butler survey during the past week.

W. S. Farish, vice-president Humble Oil & Refining Company, Houston, is in White Sulpur Springs.

Money That You Hadn't Counted On

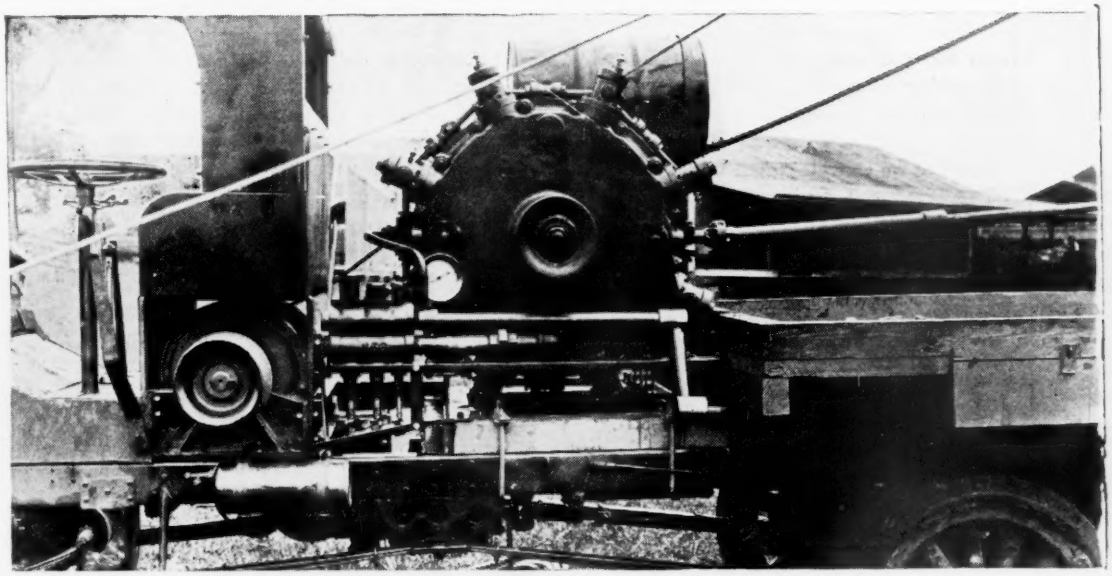
PIPE IN an abandoned well is like money in the bank—provided you can get it out.

Many companies are recognizing the logic of this argument, and now with the price of oil down and the necessity of saving money, are pulling casing from old wells and putting it right back into use in new wells.

But to recover pipe that has been in the ground even for a few months requires more than the desire to get it out. And a recent ruling of the Oil and Gas Conservation in at least one State (Texas), places certain requirements on the pulling of pipe and the plugging of the well that run up the cost of getting the pipe out, if you are not fully prepared to handle the job.

We are specialists in two things, the manufacture of pipe pulling machinery, and the pulling of pipe in abandoned wells. We have equipment constructed especially to handle this type of work efficiently, in order to recover the largest possible amount, and we have equipment that operates economically which enables us to pull your pipe on a percentage basis that means money for you and us as well.

PULLING STUCK DRILL STEM



Here is the machine in action, showing slips, truck with pumps, and shafts connecting with jacks and also unscrewing device (top).

What It Is

The principal features of the pulling machine manufactured and sold by the Thrift Hydraulic Casing Pulling Company are high power developed from an ordinary truck engine, steady application of that power at the right place and breaking out device which enables the machine to unscrew pipe that has been in a well for years.

Briefly, the machine consists of hydraulic pumps, mounted on a truck, deriving their power from the truck motor. The power is conveyed to heavy hydraulic jacks by a geared shaft. In order to comply with conservation rules which require in some States that the hole must be filled with mud before the casing is pulled, mud pumps, mounted on a light truck and operated by the truck engine, are made a part of the equipment.

What It Will Do

It is not uncommon to recover from 1000 to 1500 feet of any size pipe during a day with the assistance of three men, one operator on the truck and two men at the slips, the pump having a friction clutch which is operated to lay the brake pedal of the truck, allowing the operator to lay the pipe down with this friction clutch without the assistance of a helper.

It requires about two hours to set up the entire outfit on a job. All that is required is to make a hole along side the casing for

RECOVERING CASING

the jacks to set in, and set the arches and slips on sills across, connect the connection from the jacks to pump and start lifting. The casing is generally worked for a while until it becames loose and then is lifted out, the speed with which it is withdrawn depending on the judgment of the operator.

The break out device is also operated by the driver and unscrews the pipe with great rapidity, causing no loss of time as with the old chain tongs.

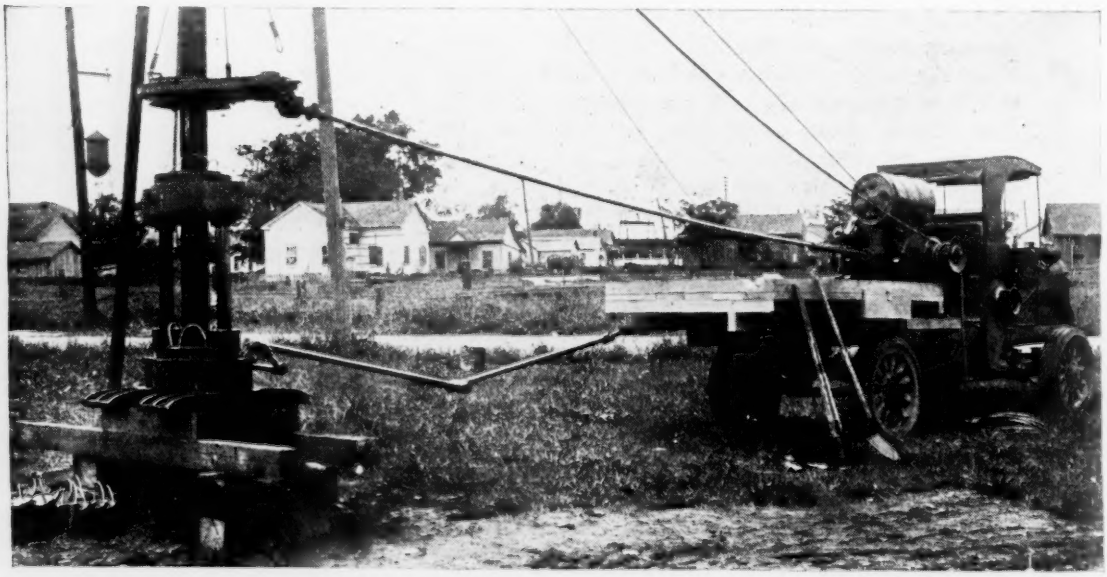
As crude oil is used in the pump, it is continuously re-used, and very little oil is needed to keep the machine going. The whole outfit moves itself without the assistance of other trucks or teams, the only assistance being required is to move the pipe recovered from the location.

A Popular Use

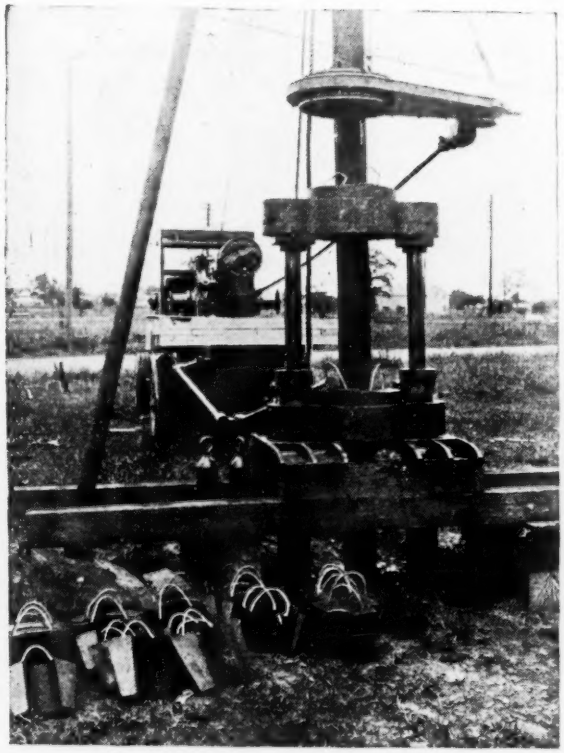
One of the uses to which the machine is being put in several fields is in pulling stuck drill stem. The rapidity with which a machine can be moved on to the job, and the heavy, steadily applied power, used without danger of pulling in the derrick, make its use ideal in such instances.

Recently at Blue Ridge the wind blew down the derricks over two drilling wells, letting drill stem drop. One of these machines was placed on the job immediately and recovered both strings without any loss of pipe and to the great satisfaction of the contractor drilling the wells.

These machines are designed to save a great many wells in the future where the drill stems become stuck in drilling, and will be a great salvation to drilling contractors, as the machines are portable and can be gotten to the field on short notice and set up promptly before the pipe can become stuck fast.



Here is close-up showing pumps which are operated by the engine of the motor truck. The pumps are comparatively light, making less than an ordinary truck load. Jacks, slips, etc., are all carried onto the lease on the truck.



Showing close-up of hydraulic jacks, slips, etc.

Our company is equipped to pull casing on basis of pipe percentage, or on a percentage of so much money per foot, in the State of Texas and Oklahoma, where we have several crews working.

These machines are also offered for sale to contractors who are finding them money makers, or to oil companies who use them to pull their own casing and to pull stuck drill stems.

If you have any casing to pull, we shall be glad to have you write the Houston office of the company, and the inquiry will be immediately forwarded to the nearest crew.

Inquiries with reference to purchase of machines will be handled promptly from the Houston office, or will gladly supply any inquirer with details as to construction, operation, etc.

Thrift Hydraulic Casing Pulling Co.

P. O. Box 1546, Houston, Texas

What About Mesopotamia's Oil Prospects?

Poor government has been drawback but country is rich in possibilities

Herewith we present an article on Mesopotamia that should be read with interest by oil men the world over. It is we believe, one of the best presentations of known facts on Mesopotamia that has ever been presented. Some of the data contained in it has never seen the light of print before. It is the first of a series on foreign countries which The OIL WEEKLY will carry.—Editor.

After centuries of discouragement in which national complications, financial troubles and climatic conditions have combined to check all attempts to exploit the petroleum possiblities of Mesopotamia, present indications are that within the near future extensive producing territories will be uncovered in this country.

While the existence of petroleum in Mesopotamia has been known since prehistoric times this industry has probably seen less development there than anywhere else in the civilized world. However, when the unfavorable conditions brought about in the country by the lack of a stable government throughout the past decade are taken into consideration the fact is not so strange.

Drastic laws enacted by constantly changing governmental officials and the general commercial depression suffered in the surrounding countries and Mesopotamia itself has kept the nation at a point where it has been impossible to finance enterprises for the development of natural resources even had the country desired to do so. Political strife in Turkey which has been a menace for many years discouraged foreign capital to such an extent that it has only been in the past few years that outside interests have undertaken in any way the necessary steps to establish the petroleum industry.

Recent settlements of international questions concerning Mesopotamia and the resume of European and Asiatic countries to a firmer economical state have materially improved the conditions of the country and with the general business expansion in the two continents which is now believed to be under way, the petroleum industry will no doubt be given much consideration.

The apperance of oil in seepages and asphalt collections in Mesopotamia is mentioned in the Bible and ancient histories in many instances remark about early uses of petroleum taken from springs found along the Euphrates River. In recent years many geological investigations have been made and these favorable reports have placed the country among the foremost as a potential oil producer.

The possible oil producing districts where either oil has been found or conditions are favorable to the production of crude in Mesopotamia may be divided into three groups; the area extending southeastward from Mosul to Kend-i-Shirin and Mandali, the scattered sections along the Persian Gulf and the district around Ahwaz. The Persian Bank Mining Rights Corporation made the first modern test for oil in the country on a concession granted in 1892.

A well was drilled at Daliki which is reported to have reached a total depth of 124 feet. A small quantity of petroleum was obtained from the hole which came from some layers of semi-solid bitumen. That the oil was dead and its volatile hydrocarbons lost is shown by a test described by Boverton Redwood which shows a flashpoint of 170 degrees F. Tests were also made at Qihm Island by the same concern and later under the D'Arcy concession wells were put down at Qasr-i-Shirin. In the latter district one well found oil at 800 feet while another test encountered showings at a depth of 2600 feet.

Oil found in the last two tests as determined by Redwood had a paraffin base and a flash point of 75 degrees. The bitumen pits which have been known to exist in this district for more than 2000 years have shown such output as to cause the belief that they are supplied from a vast subterranean store.

Along the Euphrates Valley between Hit and Deir where fields of some extent have been developed and where old wells are found, the oil oozes from the ground in many places and is also found in springs.

It was near Ahwaz that the D'Arcy concession had the best results and it was the promising conditions in that district that brought about the formation of the Anglo Persian Oil Company to take over hte area for development. The Anglo-Persian Oil Company has developed a field in this district and during the period previous to 1916 produced petroleum in such quantities that it was unable to care for it with its refinery and pipe lines and much of the oil was burned. The only drawback to the development of this district is the uncertain political conditions existing. And then too, the oil found there is more suitable for fuel than for lighting purposes.

The scattered area along the Persian Gulf are the more favorable for commercial development from a standpoint of location but these sections do not appear as favorable to yielding oil in commercial quantities. Indications in this territory are found in springs containing gas, some of which, however, is not gas of the petroleum series, and also deposits of sulphur and gypsum. The latter which may be derived from sources independent of petroleum. Other indications include supposed submarine oil springs and asphaltic limestones in which the bitumen may be merely segregations of organic matter from the flesh of the animals whose shells formed the limestone. Such occurrences of bitumen in tropical limestones and warm temperatures do not necessarily imply the presence of any great quantities of oil. Therefore everything considered the prospects of oil productivity along the gulf are far from being good.

The third territory which gives promise of becoming a commercial oil producing district is located in the foothills along the Persian front and extend from east of Bagdad to northwest of Tigris near Mosul and Hammam Ali. The numerous oil

Dame Rumor Is Busy Old Soul; Says S. O. Is Flirting Somethin' Awful

TULSA, OKLA., Sept. 18.—Now that the Dutch-Shell-Cosden absorption rumor has gone its way, the spotlight is turned on Standard Oil with Phillips Petroleum, Cosden, Marland and Producers and Refiners as the concerns desirable to the interests at 26 Broadway.

All this, of course, is just rumor. But the Wall Street Journal recently made the statement, "It is known that offers have been made for Phillips, Cosden and Marland and negotiations are now on for absorption of Producers and Refiners."

In the case of Phillips, Cosden and Marland the rumor is not new. Neither is it more insistent than it has been at various other times in the past. These three strong concerns have for several years been in position, if not to draw offers from the Standard Oil group, at least to make them proper rumor subjects.

Producers and Refiners Corporation is a choice plum just now because of prospective acreage in Wyoming. Substantial showings of oil and gas have been found in the Ferris field. In the Big Sand Draw field, the company has found immense gas deposits, with indications that oil will be found with deeper drilling.

Regardless of future prospects, Producers and Refiners is now earning around $10 a share on its 360,000 shares of stock. Oil production in Wyoming and in the Mid-Continent fields are responsible for a large part of this earning power. Another source of earning is through the contract for natural gas with the Standard Oil Company of Indiana. Through this contract the Standard takes 30,000,000 cubic feet of natural gas daily for three years. The gas is delivered to the Standard plant at Casper, Wyoming.

Despite the fact that the Gulf-Standard of Indiana rumor passed with the winds, that the Cosden-Dutch-Shell rumor has gone as suddenly as it came, the petroleum industry must have its rumors. Those related above are in the air now.

springs and gypsum deposits in this area as shown by Hofer (1906) are found along three lines the longer of which is the northeastern as shown by the accompanying map. This line, according to Hofer is over a thousand miles in length and is the longest oil line in the world.

The line begins at Hammam Ali about 20 miles southeast of Mosul, where a number of hot springs are found, to Kirkuk which is 85 miles southeast of Mosul and 145 miles north of Bagdad. Its anticlinal structure has been proved at several points. At Kirkuk many oil wells are located along the ridges of sandstone and conglomerate.

At Tuz Khurmatli where the northern part of the line passes, there are 14 oil springs located at Neft Dagh or sometimes called "Oil Mountain." The northern part of the line ending near Qasr-i-Shirin where crude is obtained from shallow pits and springs. It was here also that the D'Arcy concession drilled the two wells which made flowing producers from 800 and 2100 feet.

The second line as shown by the map starts 40 miles south of Mosul at Kaiyara on the Tigris and extends to Salahiyeh and the gypsum mines of Jebel Oniki Inam. This line is approximately 200 miles long.

The third and most southwesterly line runs from El-Hadhr, 50 miles west-southwest of Mosul through the bituminous limestones and sulphur springs on the bank of the Tigris at the gorge of Fethah. This line continues to Mandali about 70 miles east-northeast of Bagdad where it is reported a number of wells were producing in 1892.

At some parts of the country along these lines oil is found at the surface near well developed anticlines and it is here that a large subterranean accumulation may be reasonably hoped for.

Since the formation in this district is of such nature as to prevent the escape of the oil through porous rocks as is the case where the oil oozes to the surface larger accumulations may occur in this territoroy than at other parts of the country where surface springs are found.

The district from Mosul to Mandali is logically located for commercial development along the banks of the Tigris and other streams and it is here that the majority of native oil wells are found. The geological indications are also reported to be more favorable in this section and it is generally believed to be the most promising part of the country for future development.

With the coal supply in Mesopotamia far from sufficient to supply the country's fuel demands, the country if developed into a large oil producer would find a market of considerable size at home and in addition a large export trade could be cultivated.

Map showing oil fields, oil springs, oil seepages, asphalt deposits, anticlines and mountain ridges of Mesopotamia

Well at Kosse Acting in Freakish Manner

Made 9000 barrels one day; dead next; swabbing required; good well at Curry

MEXIA, TEXAS, Sept. 20.—Interest in the Mexia section centered principally in the Kosse area, although a well brought in by the Brothers Oil Company up in the Curry pool made that field look much better.

The Humphreys' No. 1 Jones at Kosse was given a fair chance to show what it could do early in the week. It was opened up and on the thirteenth of September made 9,000 barrels in 24 hours. It flowed for approximately 30 hours and then stopped flowing. It was cleaned out and drilled two feet deeper, and started flowing again after being swabbed. It made at the rate of 200 barrels an hour for a short time and then stopped. It was then swabbed again and would flow some after each swabbing. On Tuesday, September 19, it was agitated and swabbed throughout the day and made 428 barrels that day.

The performance of the well is not at all up to the optimistic expectations of many who had been watching it, and may have a downward effect on outlying leases.

Fair Well at Curry

The Brothers Oil Company topped the sand in its No. 1 T. W. Bounds in the Curry pool during the week, and the well came in at 2000 barrels and is now making 480 barrels a day on top of the pay. This well is a southern offset to Snowden & McSweeney's No. 1 Blanchard, also known as No. 1 Bounds. It will be drilled deeper with cable tools.

The same company's No. 4 R. V. Bounds is making 200 barrels a day on top of the sand at 2940 feet and will be drilled deeper with cable tools.

The Trapshooter's Development Company's No. 1 R. V. Bounds was a 500-barrel well at 2950 feet and the same company's No. 2 T. W. Bounds drilled through the sand to 2992 feet, got salt water and is plugging back.

The Houston Oil Co.'s No. 1 R. V. Bounds showed salt water at 3230 feet. O'Conner et al's No. 1 Oscar Bounds is a salt water well at 2968 feet; Humphreys Oil Company's No. 1 Price has 3000 feet of salt water standing in the hole, total depth of well 3300 feet.

The production for the Mexia field proper this week shows a decline over the previous week of 2700 barrels, while the Curry pool, due to one or two good new wells, shows an increase of 1,405 barrels a day.

The Kosse production is not listed as it was so erratic that it was difficult to figure it. The total production for the week probably was not more than 11,000 barrels, if that much.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

MEXIA PRODUCTION

Mexia, Texas, Sept. 18.—The daily average production of the Mexia field for the past week was divided about as follows:

	Barrels
Humphreys	23,500
Humble Oil & Ref. Co.	5,100
Gulf Production Co.	4,650
Magnolia Petroleum Co.	3,300
Simms Oil Company	3,430
Atlantic Oil Company	2,580
J. K. Hughes	2,450
Danciger Oil Company	2,100
Kirby Pet. Company	1,275
Wichita Petroleum Co.	550
Miscellaneous	12,365
Total	61,300

CURRIE PRODUCTION

Mexia, Texas, Sept. 18.—The daily average production of the Currie field for the past week is divided about as follows:

	Barrels
Humphreys	2,975
Newblock Oil Company	2,650
Snowden & McSweeney	1,670
J. K. Hughes	1,450
Homaokla Oil Company	1,350
C. N. Cranfill et al	400
Gulf Production Co.	175
Trapshooters Oil Company	45
Brothers Oil Company	2,300
Total	13,015

MEXIA COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Humble Oil & Ref. Co. Haggard 3	80	3060
Limestone County—		
Arthur Davedore Baker 1	*	1925
Navarro County—		
Brothers Oil Co. Bounds	2000	2950
Homokla Oil Co. McGaw 4	720	2950
Trapshooter Dev. Co. R. V. Bounds 1	500	2960

MEXIA DRILLING REPORT

Humble Oil & Ref. Co.'s Berthelson 36-W, dr 3460 ft; Henry 4, dk; Henry 6, lcn; Kendrick 1-A, lcn; Kendricks 12, fsh 3085 ft; Kimbell 5, lcn; Kimbell (Will) 4, lcn; Rogers 14, rig on ground; Hester Ross 3, dr 2995 ft. Humphrey-Mexia Co.'s Thomas 22, lcn; Thomas 23, lcn; Thomas 24, lcn.

Kirby Pet. Co.'s Freeman 7-A, fsh 2945 ft.

Magnolia Pet. Co.'s Thompson 12-B, sd 2960 ft. Mexia Calif. Co.'s Stroud 1, sd 3215 ft. Mexia Fish Pond Synd.'s Holton 1, dr 3125 ft.

J. K. V. Shaffer et al's Roller 1, sd 2365 ft. Skinner-Bennett's Scott 1, dk. Tennessee-California's Hardin 1, sd 3215 ft. Texas Company's Stroud 2, dr 3150 ft.

Worlds Wonder Oil Co.'s Arbuckel 1, sd 2695 ft.

Limestone County

Atlantic Oil & Pet. Co.'s Gunther 1, std to fsh for bit 3365 ft; Champion 1, dr 2650 ft.

Battersby & Kyzer's Herring 1, dr 1935 ft.

Chappell et al's Kirby 1, sd 3135 ft.

Dallas-Mexia Co.'s Allen 1, sd 670 ft. Danciger Oil & Ref. Co.'s Cook 1, dk. Daturna Oil Synd.'s Askew 1, fsh 3145 ft.

Galloway Oil & Ref. Co.'s Curry 1, sd

Home of the Wilcox Oil and Gas Company and subsidiaries, corner of Sixth and Denver Streets, Tulsa, Oklahoma

1795 ft. Grogas et al's Gordan 1, co 3070 ft.

Iron Clad Oil Synd.'s Gill 1, sd 3045 ft. Limestone Co. Leasing Synd.'s Moody 1, sd 2855 ft.

Majors Trust Synd.'s Hancock 1, sd 2300 ft. Mexia Red Seal Synd.'s Cook 1, sd 3470 ft. Mexia Simmons Oil Synd.'s Simms 1, dr 3220 ft. Mexia Wonder Pool's Whitcomb 1, sd 2135 ft.

Perry & Trustee's Bounds 1, sd 2930 ft; Bounds 2, dr 1525 ft.

J. B. Shummell's Jones 1, dr 3835 ft.

Tate et al's Favors 1, sd 3260 ft. Tenn-Mexia Oil Co.'s J. B. Bounds 1, sd 3230 ft. Texas Cent. Oil Synd.'s Cook 1, sd 3165 ft. Texas Mexia Synd.'s Matgsiak 1, sd 3250 ft. T. & P. Coal & Oil Co.'s Browder 1, sd 3000 ft.

Big Williams Oil Co.'s Lewis 1, fsh 2975 ft.

Yuder et al's Priddy 1, dr 2725 ft.

Freestone County

Abernathy et al's Gillam 1, sd 4595 ft.

Bentley & Mahone's Gilpin 1, dr 1330 ft.

Dillon, McGraw & Rickard's Stubbs 1, sd 3100 ft. Dugges & Glazier's Brooks 1, sd 995 ft.

J. H. Leamond et al's Colbert 1, dr 3530 ft.

Mexia Teague Oil & Gas Co.'s Teague T'Site 1, sd 2095 ft.

Mike Healy Pool's Daniels 1, fsh 3545 ft.

O. K. Oil & Gas Co.'s Knight 1, sd 3620 ft.

F. E. Pope et al's Smith 1, sd 3495 ft. Root & Knipley's Young 1, sd 1395 ft. The Thad McClain Co.'s Green 1, sd 2195 ft. Trapshooter Riley Oil Co.'s Couch 1, sd 3190 ft.

Navarro County

Baker et al's Davis 1, sd 2170 ft.

Atlantic Gulf Pet. Co.'s Hamilton 1, sd 2950 ft.

Big Four Oil Co.'s Akers 1, fsh 3045 ft. Brothers Oil Co.'s Bounds 4, dr plug 2900 ft; Bounds 5, set casing 2900 ft; Bounds 2, dk; G. W. Bounds 1, dr 3010 ft.

Columbia Co.'s Lawrence 1, sd 1500 ft; Wilkes 1, dk. Compass Oil Co.'s County Farm 1, dr 3100 ft. Corsicana Deep Well Co.'s Burk 1, sd 2550 ft. Cor-Tex Oil Co.'s Gray 1, sd 4140 ft. Cosden Oil & Gas Co.'s Bounds 1, std rig 3215 ft.

Duncan & Johnson's McEntire 1, rigged and sd.

Erwin et al's John Ralson 1, dr 2715 ft.

C. J. Flannigan et al's Swink 1, sd 3040 ft. F. F. F. Oil Co.'s Moody 1, sd 2625 ft.

Gilbert & Hunter et al's McCline 1, sd 3030 ft. Gulf Prod. Co.'s R. V. Bounds 1, dk.

J. R. Hill's Stubbs 1, sd 2885 ft.

Houston Oil Co.'s Bounds 1, sd 3225 ft. Hughes & Harmon's Griffin 1, sd 835 ft. J. K. Hughes Dev. Co.'s McGaw 5, sd 2955 ft. Humble Oil & Ref. Co.'s West 1, dr 300 ft. Humphrey Texas Co.'s Mattie Bounds 3, dr 600 ft; Mattie Bounds 4, lcn; Mattie Bounds 5, dr 1900 ft; Mattie Bounds 6, spudded in; McGraw 5, fsh 3085 ft; Price 1, dr 3290 ft; Mattie Bounds 7, dr 300 ft; Singleton 1, rigged up tools 3550 ft; Tyner 1, r 3250 ft.

Marr & Bell's Wright 1, sd 1925 ft.

Gilbert S. Johnson's Albritton 1, sd 3180 ft.

McCormack-Mexia Synd.'s Swink 1, sd 2500 ft. Mexia Wortham Equit. Synd.'s Fortson Bros. 1, dk.

Ranger Vindicator Oil Dev. Co.'s Thornton 1, dr 3250 ft.

Seaport Pet. Co.'s Vinson 1, fsh 3000 ft. Seay & Cranfill's Hardy 1, bailed 2990 ft. Security Drilling Co.'s Ferrel 1, sd 2100 ft.

Trapshooter Dev. Co.'s Bounds 1, lcn; Bounds 2, set casing 2970 ft; T. W. Bounds 2, bailing 2980 ft; R. V. Bounds 2, set casing 2890 ft; R. V. Bounds 3, set casing 2885 ft; R. V. Bounds 4, dr 1830 ft.

Varley et al's Keiph 1, fsh 3010 ft.

Wafer Oil Co.'s Wilkes 1, sd 1795 ft.

J. H. White et al's Fortson Bros. 1, sd 1100 ft.

Newblock Oil Co.'s M. Bounds 5, dr 1130 ft; Bounds 4, 6 and 7, lcns.

O'Connor et al's Bounds 1, sd 2965 ft.

Sanders & Wheelock Edens 1, dr 800 ft. Snowden & McSweeney Longbotham 3, sd 2895 ft.

J. Alvin Gardner, assistant to the vice president of the Gulf Production Company in charge of operations in the Wichita Falls section of Texas, journeyed via auto to Fort Worth for the big Fort Worth-Mobile game Sunday. Of course Fort Worth won the opening game with Alvin there to root for the Texas team.

Quality, performance and price; and the greatest of these is—but why worry which is the greatest when in each the Williams pipe threader meets the buyer's ideal

The Williams family has many homes

GO INTO any large railroad shop, any industrial center or any mining operation, and you'll invariably find one or more members of the Williams family.

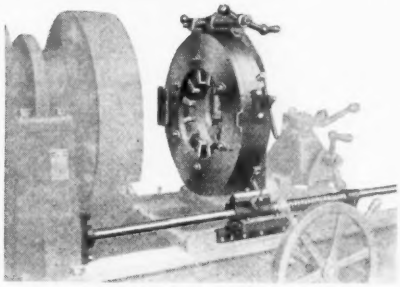
It may be the baby of the family, whose specialty is threading and cutting off pipe from ¼" to 2"; or it may be the big fellow who threads and cuts 6" to 16" pipe; or it may be one or a dozen divided among the other six members. Regardless, they all subscribe to the Williams family doctrine "to thread pipe better, quicker and at lower cost."

Do you know about the new Williams head that has added new fame to the long list of Williams achievements? It is unique in that it threads any degree and length of taper irrespective of the width of the die.

If you don't know the money-saving advantages of this Williams Patent Receding Die Head drop us a line. We suggest you do it now.

WILLIAMS TOOL CORP.
Erie, Pa.
Canadian Plant: Bradford, Ontario

WILLIAMS
Pipe Threading Machines



The New Williams Patent Receding Die Head

1. Any length and degree of Taper may be cut without reference to the width of the die.
2. By changing dies and taper guide any thread or taper may be cut.
3. MORE DIES are used than previously, making less work for each die.
4. Since the dies open up as the cut proceeds much less power is required.

New Subscriptions at the Rate

Since August 1, when the change in policy of The OIL WEEKLY was made, and The OIL WEEKLY became a journal of interest exclusively to the producing branch of the oil industry, the following new subscriptions have been received.

New subscribers received by The OIL WEEKLY from August 1 to September 18 at 9 a. m.:

Alabama	5	Nebraska	8
Arizona	2	New Jersey	10
Arkansas	33	New Mexico	1
California	108	New York	70
Colorado	15	North Dakota	1
Dist. of Columbia	8	Ohio	74
Florida	5	Oklahoma	201
Georgia	12	Oregon	2
Idaho	1	Pennsylvania	73
Illinois	46	South Carolina	3
Indiana	9	South Dakota	4
Iowa	23	Tennessee	6
Kansas	33	Texas	520
Kentucky	29	Virginia	9
Louisiana	139	Washington	15
Maryland	3	West Virginia	8
Massachusetts	12	Wisconsin	6
Michigan	27	Wyoming	12
Minnesota	8	Canada	6
Mississippi	5	Foreign	49
Missouri	49		
Montana	3	Total	1,677

This is not the total circulation of The OIL WEEKLY by any means. The OIL WEEKLY has a gross circulation of 12,000 copies each week.

They're All in the Producing Business, Too

This is one of the best evidences that The OIL WEEKLY is what the producer wants. Nearly half of the subscriptions totalled above have come from field men, superintendents, gang pushers, drillers, etc.

And during the week ending September 16 they came in in greater numbers than at any time during the period mentioned above. At the same time, an increase in the news-stand circulation in oil producing centers was noted.

THEY WANT THE OIL WEEKLY

of More Than 1,000 Per Month

Look over this issue of The OIL WEEKLY. It is a fair specimen of what The OIL WEEKLY is every week. It is jammed to the guards with LIVE stuff—and there is a saying that is pretty well known in the oil industry—

If You See It in the OIL WEEKLY You Know It Is So

At $1 a year The OIL WEEKLY costs less than two cents a copy. We deliver it to your office, to your home, or to your postoffice box—and we'll change your address gladly every week if it takes that to keep The OIL WEEKLY getting to you.

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THE OIL WEEKLY

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Enter my name for one year's subscription to The OIL WEEKLY, for which you will find enclosed check for $1, as payment in full.

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Please check below branch of industry engaged in

Producing Executive ☐ Field Man ☐ Pipe Line ☐

9-23-22

TEXAS GULF COAST COMPLETIONS

Company, Well, Location	Initial Production Bbls.	Depth
Sour Lake—		
Thy Oil Co.'s 2	10	950
Saratoga—		
Lon Bernards Oil Co.'s 15	10	2050
Goose Creek—		
Humble O. & R. Co.'s Gaillard Penn 25	50	4205
Gulf Prod. Co.'s		
Chapman Bryan 3	2000	4400
Houston Smith 7	30	2600
Hull—		
Humble Oil & Ref. Co.'s Taylor 1	*	2250
Gulf Prod. Co.'s Scarborough 9	500	3200
Houston Oil Co.'s Abel 2	800	1150
Fusom Dev. Co.'s Pickett 1	*	875
West Columbia—		
Humble Oil & Ref. Co.'s Bullock Nash 2	*	3225
Badge 1	50	3505
Orange—		
Humble Oil & Refining Co.:		
Winfree 6	110	4025
Tasco 1	50	3700
Gulf Prod. Co. Carrie Brown 1	*	4600
Hamilton Oil Corp. Chesson 1	1500	3900

ORANGE PRODUCTION

Houston, Texas, Sept. 18.—The daily average production of the Orange field for the past week was divided about as follows:

	Barrels
Gulf Production Company	4,700
Humble Oil & Refining Company	2,890
Hamilton Oil Corporation	2,350
Amerada Petroleum Corporation	1,450
Edgerly Petroleum Company	1,010
Brownie-Babbette Oil Company	925
Orange Petroleum Company	585
Atlantic Oil Company	475
Monarch Oil & Refining Company	415
Sun Company	270
Sinclair Oil & Gas Company	182
Supreme Oil Company	150
Gulf Coast Oil Company	100
Miscellaneous	140
Total	15,642
Last week	15,465

ORANGE DRILLING REPORT

Humble Oil & Ref. Co.'s Chesson 15, lcn; Chesson 12, sd 4015 ft; Chesson 8, fsh dr stem 4115 ft; Winfree 7, lcn; Aaronson 2, dr 4205 ft.

Texas Co.'s Jack Island 1, waiting for fuel 1145 ft.

K. Kishi & Co.'s Kishi 1, rigging up; Kishi 2, dk.

Amerada Pet. Corp.'s States 1-A, wo, pulling liner 3275 ft; States 3-A, dr 3725 ft.

Brownie-Babbette Oil Co.'s McLean 5, dr 1300 ft; McLean 8, set 3-inch screen 4025 ft; McLean 9, dk; Pevito 4, wo, sdtr 3510 ft.

Edgerly Pet. Co.'s Carbello 9, bldg std rig 3370 ft.

Second Well at Luling Is Nearing Sand; Several Companies to Drill

LULING, TEXAS, Sept. 18.—A. J. McKean and associates of Caldwell County near San Antonio have filed papers for the Prairie Lee Production Company of Prairie Lee, Texas, with capital stock of $100,000. So far as known here this is the first company, aside from the United North and South Oil Company which discovered the field, to announce its intentions of drilling in the new Luling pool. The Grayburg Oil Company of San Antonio is reported to have blocked up some acreage with a drilling contract and will shortly spud in a well. There are reports here that at least 12 derricks will go up in the next 60 days and that five or six rigs are already on their way to this field.

The Prairie Lee Company is said to have acquired 500 acres of land very close to the United Company's flowing well which still is making better than 250 barrels of oil a day with some water. The Prairie Lee has let a contract for its first well, it is stated, and expects to spud in immediately. Chief interest in the Luling field just now centers about the United North and South Company's No. 1 Cartwright, which is getting down to about the depth where the Rios well got oil. Acreage has been blocked up for eight to ten miles in all directions.

Gulf Coast Oil Co.'s Leon 4, dk.

Hamilton Oil Corp.'s Chesson 2, dr 4200 ft; Chesson 5, bldg steel rig 4050 ft; Chesson 9, dk.

Orange Pet. Co.'s Winfree 1, bldg std rig 3150 ft; Winfree 8, lcn; Winfree 4, rigging up to wo; Chesson 4, dr 620 ft.

Sun Co.'s Belile 2, dr 3850 ft; Gunstream 3, dr 2990 ft; Minor 1, dr 3460 ft.

Sinclair Oil & Gas Co.'s State 1-A, dr 3785 ft.

Thrift Oil Co.'s McGuire 2, pulling liner to dr deeper.

Supreme Oil Co.'s Jackson 2, rigging up to drill deeper 3430 ft.

L. C. Barrett's Winfree 1, rigged up.

Gulf Prod. Co.'s Winfree 6-A, sd 3800 ft; Hager Fee 7, dr 3825 ft; Hager & Moore 7, dr 3300 ft; Kishi Lang 3-A, bldg std rig 3200 ft; Chesson 5, dr 3375 ft; McGuire 1, rigged up.

WEST COLUMBIA PRODUCTION

Houston, Texas, Sept. 18.—The daily average production of the West Columbia field during the past week was divided about as follows:

	Barrels
The Texas Company	21,120
Humble Oil & Refining Company	4,600
Gulf Production Company	1,060
Hyde Production Company	675
The Sun Company	475
Crown Oil & Refining Company	150
Monarch-Stribbling	60
Miscellaneous	140
Total	26,230
Last week	27,180

WEST COLUMBIA DRILLING REPORT

The Texas Co.'s Hogg 31, sdtr 2790 ft; Hogg 71, sd 3740 ft; Hogg 74, broke down drill stem 4475 ft; Hogg 76, dk; Hogg 78, dr 3500 ft; Hogg 79, fsh 660 ft; Abrams 8, cored 3600 ft; Abrams 9, cored 3670 ft; Abrams 10, making up 4-inch drill stem 860 ft.

Humble Oil & Ref. Co.'s Japhet 9, dr 3050 ft; Japhet 34, set screen 3760 ft; Badge 2, dk; Wilson 1, dr 3580 ft; Wilson 2, lcn; Meigard 4, dk.

Hyde Prod. Co.'s Sun-Leggett 4, dr 600 ft.

Wichita Pet. Co.'s Smith 2, bldg std rig.

Helm et al's 2, dr 3460 ft.

Kavanaugh et al's Strip 1, to put 3500 ft.

Gulf Prod. Co.'s Eyres 7, dr 2875 ft.

Atlantic Oil Co.'s Wilson 1, dr 2150 ft.

HULL PRODUCTION

Houston, Texas, Sept. 18.—The daily average production in the Hull field during the past week was distributed approximately as follows:

	Barrels
Republic Production Company	6,800
Gulf Production Company	5,600
Houston Production Company	2,100
Higgins Oil & Fuel Co.	1,700
Yount Lee Oil Company	1,700
Humble Oil & Refining Company	1,250
Empire Gas & Fuel Company	600
Monarch Oil & Refining Company	530
F. H. Carpenter, Trustee	450
Texas Company (Royalty)	190
Crown Oil & Refining Company	10
Miscellaneous	15
Total	20,945
Last week	19,400

HULL DRILLING REPORT

Empire Gas & Fuel Co.'s Barrow 2, dr 4175 ft.

F. H. Carpenter Trustee's Stengler 2, dr 2200 ft.

Gulf Prod. Co.'s Scarborough 11, dr 3010 ft; Morris Phillips 15, dr 3240 ft; Hannah 2, dr 1700 ft; Hannah 3, dk.

Higgins Oil & Fuel Co.'s Merchant 2, dr 3300 ft; Merchant 3, dr 1875 ft.

Houston Prod. Co.'s Barngrover 7, set screen 3675 ft; Abel 1, dr 115 ft.

Humble Oil & Ref. Co.'s Hook Spell 10, lcn; Guedry 15, dr 3395 ft; Taylor 2, lcn; Crosbie 1, dk; Merchant 1, dr 2850 ft; Marshall 1, dr 900 ft; Abel 1-A, dr 1495 ft; Abel 1-B, set liner 1245 ft, making 300 bbls; Abel 2-B, dr 525 ft; Abel 3-B, lcn.

Link Oil Corp.'s Rivers 1, dr 2450 ft.

Republic Prod. Co.'s Dolbear 56, dk; Dolbear 10, rig up to wo; David Hanna 4, dr 2590 ft; David Hanna 5, dr 1001 ft.

Yount Lee Oil Co.'s Merchant 2, dr 2045 ft; Stengler 3, dr 2400 ft; Stengler 4, dr 2292 ft.

Monarch Oil Ref. Co.'s Abel 1, dr 7[illegible] ft.

F. W. & P. Oil Co.'s Carr 5, dk.

GOOSE CREEK PRODUCTION

Houston, Texas, Sept. 18.—The daily average production of Goose Creek field for the past week was distributed about as follows:

	Barrels
Gulf Production Company	7,000
Humble Oil & Refining Company	6,000
Crown Oil & Refining Company	750
The Sun Company	345
Turnbow Oil Corporation	335
Gulf Coast Oil Company	200
C. B. Japhet Oil Company	100
Miscellaneous	250
Total	15,030
Last week	14,770

GOOSE CREEK DRILLING REPORT

Humble Oil & Ref. Co.'s Gaillard 49, dk; Gaillard 50, dr 625 ft; Smith-Simms 33, sd 4110 ft; Smith-Simms 46, dr 4375 ft; Smith-Simms 43, sd 4180 ft; Isenhour 1-A, dr 4100 ft; Isenhour 2-A, dr 3350 ft; Isenhour 1-B, dr 4705 ft; Schilling 32, dr 4405 ft; Sweet 25, dr 3465 ft; Beaumont State 10, dr 2200 ft; Harrell 2, dr 3265 ft.

Gulf Coast-Crown Oil's Gaillard 36, washing out 3370 ft; Gaillard 37, lcn.

Butler Perry et al's Bryan 3, set screen and shows some oil 4230 ft.

Hiegene Oil Corp.'s Scorrega 1, dr 3400 ft.

Turnbow & Pierman's Dolan 6, dr 1995 ft.

Crown Oil & Ref. Co.'s Gillette 6-A, rigging up.

Gulf Prod. Co.'s Chapman Bryan 4, dr 2620 ft; Gaillard 15, dr 4100 ft; Gaillard 16, dr 2550 ft; Isenhour 6, sw 4800 ft, td 4900 ft; Hirsch State 1, dr 3100 ft; Black Duck Bay State 1, dr 3775 ft.

Sun Co.'s Smith 6, dr 2610 ft.

Ship Channel Oil Co.'s Atkinson 1, dr 750 ft.

G. R. Copeland Oil Co.'s Spillman Isle 1, rig up, td 1210 ft.

BARBERS HILL DRILLING REPORT

Humble Oil & Ref. Co.'s Fee 2, lcn; Fee 3, lcn.

Mills Bennett's Chambers County 2, dr 2850 ft; Japhet 1, milled out casing, dr 2200 ft.

United Pet. Co.'s-Oriole Synd.'s Richardson 8, dk.

The Texas Co.'s Scott 1, dr 3670 ft.

BLUE RIDGE DRILLING REPORT

Niels Esperson's Ewing 1, dr 4595 ft.

The Texas Co.'s Robinson 9, cored at 4545 ft.

Gulf Prod. Co.'s West Schenck 3, dr 3370 ft.

SPINDLE TOP DRILLING REPORT

Wilson Brooch's Heywood 4, dr 625 ft.

Amerada Pet. Corp.'s McFadden 1, dr 3680 ft.

Unity Oil Co.'s McFadden 79, to put on pump 830 ft.

BATSON DRILLING REPORT

Kirby Pet. Co.'s Millhome Strip 10, dry gas 2425 ft, blew pipe from hole.

Skinner Prod. Co.'s Henry 2, sw 1250 ft.

Gulf Prod. Co.'s Bates 17, dr 900 ft.

East Batson Oil Co.'s Lone Acre Co. 9, losing returns 590 ft.

MISCELLANEOUS TEXAS GULF COAST PRODUCTION

Houston, Texas, Sept. 18.—The average daily production for the miscellaneous Texas Gulf Coast fields during the past week was distributed about as follows:

	Past Week	Prev. Week
Sour Lake	4475	4450
Somerset (S. A.)	3450	3100
Mirando (Zapata County)	3250	3000
Saratoga	1750	1660
Blue Ridge	1300	1325
Batson	1180	1152
Spindle Top	780	810
Barbers Hill	775	800
Nacogdoches	100	100
Markham	100	100
Dayton	65	65

HUMBLE PRODUCTION

Houston, Texas, Sept. 18.—The daily average production of the Humble field for the past week was divided about as follows:

	Barrels
The Texas Company	3,775
Galena Signal Oil Company	1,325
Invincible Oil Company	270
Czreaux & Martin	255
Southern Petroleum Company	150
Crown Oil & Refining Company	100
Humble Oil & Refining Company	100
Trinity Oil Corporation	50
Gulf Coast Oil Corporation	45
Bradley Brothers	25
Miscellaneous	665
Total	6,760
Last week	6,705

HUMBLE DRILLING REPORT

The Texas Co.'s Stevenson 26, preparing to perforate casing 2985 ft; Stevenson 23, showing of oil and gas 2710 ft; Landslide 237, to shoot 8-inch casing and sdtr 2335 ft; Landslide 236, sdtr 2335 ft; Koehler 24, sdtr 2770 ft; Koehler 32, bailing 5050 ft.

Crown Oil & Ref. Co.'s Herman 61, putting on pump 1030 ft.

SARATOGA DRILLING REPORT

Gulf Prod. Co.'s Mayo 1, set casing 3275 ft, r 3310 ft.

STRATTON RIDGE DRILLING REPORT

Freeport Sulphur Co.'s Dannenbaum-Tolar 10, dr 2275 ft; Dannenbaum-Tolar 9, wo at 4368 ft; Seaburn 2, dr 2125 ft.

Fairchild Oil Co.'s Boggs 1, coring 4050 ft.

Empire Gas & Fuel Co.'s Wilson 1, dr 3450 ft.

Holmes Oil Co.'s McDonald 1, rigging.

DAYTON DRILLING REPORT

Humble Oil & Ref. Co.'s Pruitt 4-A, sdtr 2270 ft; Pruitt 5-A, dr 2075 ft.

North Dayton Oil Co.'s Jones 2, lcn; Grandberry 2, sd 1815 ft.

Beaumont Oil Co.'s Josey 1, sd 1700 ft.

Sapp et al's Peterson 1, dr 4155 ft.

SOUR LAKE DRILLING REPORT

The Texas Co.'s Fee 243, bailing 2780 ft; Fee 289, dr 2000 ft.

Lake Oil Co.'s Herbert 22, dr 1840 ft.

Gulf Prod. Co.'s Tarver 51, dr 2150 ft.

Thy Oil Co.'s 5, rigging up to wo.

DAMON MOUND PRODUCTION

Houston, Texas, Sept. 18.—The daily average production of the Damon Mound field for the past week was about as follows:

	Barrels
Sinclair Oil & Gas Company	2,265
Southern Petroleum Company	370
Humble Oil & Refining Company	200
Hyde Production Company	200
Total	3,035
Last week	3,045

DAMON MOUND DRILLING REPORT

Sinclair Oil & Gas Co.'s Bryan 27, pulling liner to test 3150 ft; Masterson Trustee 3, dr 1710 ft; Williams 5, dr 2770 ft; Masterson 15, dr 1665 ft; Jackson 14, dr 3525 ft.

Southern Pet. Co.'s Bryan 4, sd 3000 ft.

Hyde Prod. Co.'s Gibson 2, dr 2125 ft; Kittrel, dr 2020 ft; Wisdom 1, rigging up.

PIERCE JUNCTION PRODUCTION

Houston, Texas, Sept. 18.—The daily average production of the Pierce Junction field for the past week was about as follows:

	Barrels
Gulf Production Company	630
Snowden & McSweeney	450
Humble Oil & Refining Company	205
Sun Company	100
Total	1,385
Last week	1,555

PIERCE JUNCTION DRILLING REPORT

Humble Oil & Ref. Co.'s Dooley 3, dr 3545 ft; Dooley 5, lcn; Whitehead 2, dr 4160 ft; Fitzsimmons 4, dr 1350 ft.

Sun Co.'s Whitehead 1, dr 3400 ft.

Myers et al's Myers 1, dr 4135 ft.

Texas Coast Oil Co.'s Settegast 1, dr 4640 ft.

Gulf Prod. Co.'s Taylor 13, dr 1825 ft.

PERRY MOORE GOES INTO LEATHER BELTING BUSINESS

Houston, Texas, Sept. 19.—Major J. Perry Moore, who for the past few years has been associated with the Humble Oil and Refining Company, Houston, Texas, as executives' assistant in charge of industrial relations, has resigned to become general manager of the Texas Belting Company, headquarters in Houston.

The Texas Belting Company manufactures and distributes "Runwel Waterproof Leather Belting," a strictly "made in Texas" product and due to its quality he believes it should offer an especial appeal to the oil industry since the leather used in its construction is the result of the best effort on the part of expert tanners who have spent two score years in tanning leather by the long time process of pure oak bark tanning.

E. W. Hammond, general manager of Gulf Oil Corporation affairs in South America, was in Houston and Wichita Falls this week, having recently arrived in the States from Panama where he makes headquarters. His home is in Houston and his family returned from South America with him after spending 14 months in that country.

I WENT out to the field the
* * *
OTHER day and a bird was
* * *
RUNNING a string of casing,
* * *
AND to of lissened at the
* * *
TRAVELING block you wood of
* * *
THOUGHT he was running a
* * *
PHONOGRAPH record of a piccolo
* * *
SOLO. Ever time that block got
* * *
A CHANCE to turn a wheel the
* * *
BOYS on the derrick wood stick
* * *
THEIR fingers in their ears.
* * *
"DON'T you like music?" I says
* * *
TO the Driller "Music,"
* * *
HELL," says the driller. "That aint
* * *
MUSIC to me. It'll take more oil
* * *
THAN this well will produce to
* * *
KEEP that block oiled, and
* * *
WITH this cost of production going
* * *
UP I'm afraid I ain't got no
* * *
JOB pretty soon." "Well,
* * *
LISSEN to this," I says to him.
* * *
"THEY'S a bird in this field that
* * *
HAS been using a
* * *
GULFCO traveling block for several
* * *
MONTHS, and he don't ever oil that
* * *
BLOCK but once in ten days, and
* * *
IT DON'T ever serenade him and
* * *
IT AIN'T got no sharp corners to
* * *
HANG on the finger board and the
* * *
BEARINGS don't burn up, and—"
* * *
"GOOD LORD," yelled the driller,
* * *
"LEAD me to it." And if any
* * *
OTHER field man wants to know all
* * *
ABOUT it, just write,

Gulf Coast Machine and Supply Co.
BEAUMONT, TEXAS

Grayburg Attains More Than 1000 Barrels Daily Average in Somerset

SAN ANTONIO, TEXAS, Sept. 19.—The Grayburg Oil Company attained a production of more than 1000 barrels a day during the week just closed, a record which its officials had hoped to obtain by January 1, 1923, but which they achieved earlier due to a long, dry summer, during which drilling was practically uninterrupted. On Monday, September 11, the Grayburg's daily average was 1003 barrels. The Grayburg's Texas-Morrison 1 put the Grayburg across the 1000 barrel mark when it came in flush for 60 barrels by heads but soon settled and is now on the pump. It is an excellent well and is expected to hold up around 20 barrels. This well is on offset acreage to the Frontier Oil Company's big gasser, and was made in loose formation, which accounts for the flush production. However, before the Grayburg's daily average sagged below the 1000 barrel daily average, several more wells were completed and the big San Antonio company is now safely across the margin. Its daily average this week ought to run up another 50 or 75 barrels with good luck in the field.

The Grayburg Company is hard at work on a schedule of 200 wells and has sixteen rigs running in the field and more than 100 derricks up or building. It is spending most of its efforts in the southwestern extension, but is drilling offsets and contract wells on several scattered leases in various parts of the field.

If only average wells are brought in, it should have between 1300 and 1400 barrels a day of 32 to 45 gravity light oil when its program for the year is concluded. It will then be the largest single oil producing concern in Somerset, and probably in this area. The company has no market difficulties, as it owns its own gathering lines, pipe line to San Antonio, a refinery and a retail service consisting of about a dozen first-class retail stations. It also sells considerable gasoline in car lots.

Other Somerset wells this week were:

Bluebonnet's Tootsky 2, 10 barrels; Grayburg's L. F. Heickmann 5, 8 barrels; Grayburg's Texas-Morrison 1, 60 barerls flush; Grayburg's Schmidt 14 and 15; Lain Oil Co.'s Seffel 1, 8 barrels; Toronto Gray Oil Co.'s Nix 2, 8 barrels; Valverde Oil Co.'s Long 18, 8 barrels.

There were 50 wells drilling in Somerset for the week, 60 rigs in the field, and 70 locations.

SOMERSET FIELD DRILLING REPORT

Blue Bonnet Oil Co.'s Tootsky 2, on pump; average production.

Duffy, Delaven & Perrenot's Gonzales 4, cemented; Dobrowolski 2, lcn.

Grayburg Oil Co.'s Ed Wells 1, bailing; Ernst 15, bailing; 18, dr 644 ft; 20, dr 200 ft; 9 Muennink, dr below 1000 ft; L. F. Heickman 5, on pump, average production; 6, dr 200 ft; Morgan Williams 2, dr 1570 ft; Hartung B., 6, dr 1600 ft; 8, rigging up; Hartung A., 7, bailing; Shaw 10, fsh; Tex-Carruthers-Morrison 1, on pump, average well; Schmidt 14 and 15, on pump, average wells; 16, bailing; G. W. Carruthers 20, dr 1600 ft; D. Heickman 5, dr 1600 ft; Ila Carruthers 12, dr 1500 ft; Ruby Gray 1, bailing.

Gulf Production Co.'s Gulf 3, bailing; 4, dr 1000 ft; 5, dr 500 ft.

Glasscock Leasing Synd.'s Klemcke 11, rigging up; 12, lcn.

Helvetia Copper Co.'s Lee Knight 1, spudding in.

Johnson Bros.' Nestroy 4 and 5, cementing.

Ed Leach et al's Carruthers 1, sd; Ben Carruthers 3, lcn.

Medina Oil & Gas Assn's Barker 4, lcn.

Hobson & Vorhees' Surtees 3, cemented.

Martin Bros.' Lambert 2, cemented.

Lain Oil Co.'s Seffel 1, on pump, average production.

McClure et al's Eggers 8, dr 500 ft; Carruthers 6, rigging up.

Marathon Oil Co.'s Brown 7, dr in.

New England & Texas Oil Ref. Co.'s Smith 2, dk.

Empire Oil & Fuel Co.'s Surtees 4, dr 500 ft.

Petroleum Venture Co.'s Garnand-Boynton 2, dr 250 ft.

Somerset Crude Oil & Ref. Co.'s Schmidt 3, cemented.

Texas Southern Oil & Dev. Co.'s Surtees 5, dr in.

Richards et al's Tuerpe 1, dk.

Somerset Mission Oil Co.'s Carruthers 5, lcn.

W. E. Rutledge Swearingen 1, dk.

Southex Dev. Co.'s Winans 1, lcn.

Southwestern Prod. Synd.'s Carruthers 2, sd.

Toronto Gray Oil Co.'s Nix 2, on pump.

Val Verde Oil Co.'s Long 18, on pump, average production; 19, spudded in.

Witherspoon Oil Co.'s S. E. Ricks 3, rigging up.

Tulsa, Okla., Sept. 19.—Steel tankage, of the larger type especially, has taken a climb heavenward during the past few weeks, and tank people are finding themselves scrambling to keep plate on hand. Prices have gone up—up—up until now a construction company can't be sure just what its next shipment of plate will cost.

Tanks of the 55,000 barrel variety are now costing around $16,500 per tank as compared with $14,500 not long ago—because of the increase in steel prices.

Bill Dwyer, manager of the Dallas office of the United Iron Works Company, Kansas City, was a visitor in Houston and San Antonio the past week. Bill had on a gold striped suit and a red necktie and said business was good but it could be a lot better. Bill is going up to Oklahoma next week to attend a meeting of some accident board. He says that if the price of steel keeps going up, and the tank people don't get more for their labor, overhead (Bill's suit, we've got a hunch is a part of that overhead) etc., it will be an accident if they make any money building tanks. But we notice that Bill keeps grabbing off a few contracts every time he comes to Houston, and we also notice that Bill carries exactly the kind of cigars we smoke.

Boykin "Greyhound" Travelling Block

Boykin Special Lubrication Features Second To None.

The Driller's Favorite—

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Embodies Every Detail for Rotary Perfection
Now Ready for the Oil Fraternity

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HOUSTON - BEAUMONT

BOYKIN
SPEED AND ENDURANCE
GREYHOUND PRODUCTS

MOUNTAIN STATES
WYOMING, MONTANA, COLORADO

Wells Nearing Pay Sand In Teapot Dome District

Casper, Wyo., Sept. 16.—With two holes cemented on top of the second Wall Creek sand, it will be definitely known whether or not the Teapot is productive within the next ten days or two weeks.

The Mammoth Oil Company has its No. 1 on the northwest quarter of section 21-39-78 cemented at 2489 feet, and its No. 1 on the southwest quarter of section 29-39-78 is standing for cement to set at 2595 feet. These wells are about a mile apart in the north end of the field and will prove a large area when completed.

Nothing further has been done with the well on the southwest quarter of section 27-39-79, in which a good showing of shale oil was developed as no tankage facilities are yet available to handle the output in case of flow. The hole is standing at 935 feet.

With grades for 16 of the tanks completed, two of the 55,000-barrel containers almost completed, and work progressing rapidly on two of the 64's, it is thought that at least one can be completed by the time the two cemented wells are ready to drill in so that there will be no delay in finishing them. Steel for the 80's should start arriving the first of the week and construction of those will be started immediately. Most of the tank farm lies in section 27-39-78, which is centrally located north and south, and toward the east side of the reserve.

Bolton Creek Field Promised Pipe Line In Near Future by New Pipe Line Concern

CASPER WYO., Sept. 15.—Plans have been completed whereby immediate work on a pipeline to the Bolton Creek field will be started and carried to a quick completion.

The formal announcement made yesterday of the merging of the Kinney-Coastal and Iowa-Wyoming oil companies, officers of which have formed the Bolton Oil company for the purpose of building the line, makes this carrier possible and it is expected that the Bolton Creek product will be flowing to market not later than December 15. Surveys have been completed the material ordered and it will be a matter of only a short time until actual construction is under way.

In the announcement it is stated that the Kinney-Coastal has acquired 70 per cent of the Iowa-Wyoming and has arranged for a note issue to care for the financing of the pipe line company. These notes will be available to present stockholders in proportion to the amount now held.

The Kinney-Coastal will issue for the purpose of carrying on development, 500,000 in 7 per cent notes, and with each $1,000 worth of notes purchased, 1,000 shares of stock will be given. In the event that a portion of this issue it not taken up, a group of the stronger stockholders agree to take the remainder.

A voting trust consisting of Karl C. Schuyler, E. D. Milliken, C. A. Fisher, J. L. Warren, Noah Williams, H. M. Havener and Edward Meentz has been formed for a duration of five years to insure the maintenance of a definite policy of the management.

The Bolton Creek field which was proved in January, 1920, is controlled by the Iowa-Wyoming which has leases on 960 acres and which has been the leading spirit in the development of that structure.

The company now has 10 producing wells with a combined output of approximately 2500 barrels, but, it is estimated that this production can be doubled within a few months with additional drilling.

The oil is paraffin base, having a gravity of 32-8 and a gasoline content of 27 per cent. One million barrels of crude has been contracted to the Midwest Refining Company it is said, at a price which will net the company $1.05 for the first 500,000 barrels and $1.00 for the balance.

In addition to the Iowa-Wyoming, the Casper-Bolton Syndicate, San Juan Petroleum Company, and the New York Oil Company will benefit, all having production in the field or nearby at the present time. It will also provide an incentive for further drilling in the surrounding structures all of which are supposed to be continuations of one big pool,. particularly the Basin Park field to the north which is now being drilled. One well is nearing the sand in this structure which is being drilled by Goeckel, et al, the joint test of the Victor-Wyoming, Benedum and Trees and Weber interests is making rapid progress and the Seal Oil Association, which owns extensive acreage in the heart of the structure, expects to begin operation within the near future.

Casper, Wyo., Sept. 16.—With all of the eight-inch main line completed to Teapot, and most of the six-inch lines from there to Salt Creek in the ground, the line of the Western Pipeline Company is nearing completion. There still remains a six-inch line to be laid to the field end instead of a single eight.

Owing to the rough country through which these smaller carriers are being laid the progress is not so rapid as was made through open territory, but the present pace maintained it is expected that the line will be ready for a test within the next few weeks.

Salt Creek Field Gets 3000-Barrel Producer; Geologists Tell 'Em Why

Casper, Wyoming, Sept. 16.—Among the many satisfactory completions in the Salt Creek field this week, the Ohio Oil Company's Number 3 on Tract O, is without doubt the most sensational. Coming as it did in territory entirely surrounded by small producers, the well came in with an estimated production of 3,000 barrels, in SE¼-NE¼, Section 13-39-79, at 2315 feet. The bit was only some 20 feet in the sand. After the gas pressure had blown off the control, the well flowed wild for a short time. It is now shut in awaiting storage.

The fact of this well's being a gusher has been explained by geologists here, who say that the well is located just a few feet south of the big fault line which cuts that part of the field from the northeast to southwest.

The Ohio Company's No. 1, Tract G, Section 17-39-78 was shut down at 2706 feet; is said to be about a fair pumper.

On Section 30-40-78, the Inland Oil Company's No. 6 Black is testing 1002 barrels after twenty-four hours gauging. Depth 2310 feet, and 38 feet in the sand.

The Consolidated Royalty Company's No. 6, Richardson, Section 5-39-78, has been put on the pump at 1665 feet, and after a twenty-four hour gauge, is making 66 barrels. It is to be saved at that depth since it is a shale well.

An estimated 1200-barrel well is that of the Salt Creek Consolidated Company on Section 3-39-79 at 2717 feet.

After a test, the Fensland company's well on Section 19-39-79, is a 697-barrel producer at 2575 feet.

A big well is expected by Fensland on Section 20-39-78 in its number 2, Bywater test.

Midwest Refining Company, completed its No. 6-A, SW¼, Section 11-40-79. It is tested at 1790 feet and is producing 360 barrels.

Other Midwest companies who are showing completions this week are:

Wyoming Associated, No. 1-A, SE¼, Section 11-40-79, 2314 feet.

Salt Creek Consolidated, No. 24-A, NW ¼, Section 8-39-78; 2712 feet.

Parkman Oil Company, No. 6-A, SE¼, Section 12-40-79; 2516 feet, 1036 barrels.

H. H. King, manager of the Wichita Falls office of The OIL WEEKLY, is officially on his vacation. But he was satisfied with making a trip to Fort Worth and Dallas to see a few old friends and then return to Wichita Falls to spend the rest of his rest period visiting the oil fields in his territory via auto. That boy doesn't know a vacation when he sees it.

Good Well for West Dome Oil Company in Montana

Winnett, Mont., Sept. 14.—The West Dome Oil Company has completed its No. 11, NE¼ of Section 9-15-29; this well is estimated at 500 barrels, the sand is 24 feet thick and the oil was found at 1420

(Continued on page 50)

Gulf Refining Company

OKLAHOMA
TEXAS
LOUISIANA

Refiners of PETROLEUM

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GASOLINE
NAPHTHA
GAS OILS
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Savannah, Ga.
Gretna, La.
Magazine Point (Mobile), Ala.

Providence, R. I.
Jacksonville, Fla.
Galveston, Texas

HAYNESVILLE PRODUCTION

Shreveport, La., Sept. 18.—The average daily production for the Haynesville field in Claiborne Parish for the past week was divided approximately as follows:

	Barrels
Ohio Oil Company	23,500
Gilliland Oil Company	7,065
Louisiana Oil Ref. Corp.	7,045
Roxana Petroleum Corporation	2,350
Standard Oil Company	2,150
Smitherman & McDonald	2,000
Humble Oil & Refining Company	1,250
Amerada Petroleum Corporation	1,225
Simms Oil Company	1,200
Gulf Refining Company	1,165
Palmer Trust	700
Transcontinental Oil Company	680
LeVert Oil & Gas Company	630
Houston Oil Company	500
D. C. Richardson	465
W. H. C. Oil Company	430
Ziegen et al	430
National Refining Company	430
Belchic & Laskey	375
V. K. F. Drilling Company	280
Owl Oil Company	275
Tarver & Murphy	215
Federal Petroleum Company	205
Miscellaneous	5,185
Total	57,700
Last week	56,695

HOMER PRODUCTION

Shreveport, La., Sept. 18.—The average daily production for the Homer field in Claiborne Parish for the past week was divided approximately as follows:

	Barrels
Standard Oil Company	4,540
Gulf Refining Company	2,160
Gilliland Oil Company	2,000
Arkansas-Invincible Oil Corporation	650
Arkansas Natural Gas Company	710
The Texas Company	650
Simms Oil Company	820
United Oklahoma Oil & Gas Corp.	615
White Oil Corporation	525
Louisiana Oil Ref. Corp.	380
Sinclair Oil Company	300
Miscellaneous	1,050
Total	14,400
Last week	14,145

BELLEVUE SHALLOW FIELD

Shreveport, La., Sept. 18.—The average daily production in the Bellevue Shallow Field in Bossier Parish for the past week was divided approximately as follows:

	Barrels
Standard Oil Company	2,430
Gulf Refining Company	1,150
Humble Oil & Refining Company	1,380
R. L. Autrey	810
Louisiana Oil Ref. Corp.	685
R. O. Roy & Company	400
Chandler & Collins	170
Total	7,025
Last week	7,520

ELM GROVE PRODUCTION

Elm Grove	1,050

BULL BAYOU PRODUCTION

Shreveport, La., Sept. 18.—The daily average production for the Bull Bayou field for the last week was approximately as follows:

	Barrels
Gulf Refining Company	1,600
The Texas Company	1,050
Fortuna Oil Company	1,025
Continental Asphalt Company	490
Standard Oil Company	170
Sinclair Oil Corporation	115
Simms Oil Company	20
Miscellaneous	1,530
Total	6,000
Last week	6,040

CADDO PRODUCTION

Shreveport, La., Sept. 18.—The average daily production for Caddo Parish last week was approximately as follows:

	Barrels
Gulf Refining Company	2,925
Standard Oil Company	1,775
The Texas Company	1,425
Dixie Oil Company	800
Fortuna Oil Company	525
Louisiana Oil Ref. Corp.	260
Caddo Central Oil & Ref. Co.	255
White Oil Corporation	60
Miscellaneous	2,975
Total	11,000
Last week	11,135

LOUISIANA COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Haynesville Field—		
Louisiana Oil Ref. Corp. Sherman 4, 23-23-8	75	2832
Ohio Oil Co. Camp 9, 15-23-8	100	2809
Garrett 16, 23-23-8	175	2832
Hunt 14, 9-23-8	65	2789
Hunt 15, 16-23-8	150	2843
Lowe 5, 17-23-8	40	2830
Reeder 1, 26-23-8	175	2823
Seegars 4, 9-23-8	190	2840
Sherman 4, 23-23-8	185	2819
Sherman 11, 15-23-8	90	2807
Taylor 2, 13-23-8	95	2837
Roxana Pet. Corp. Hunt 1, 4-23-8	‡	3184
Russell et al Snead 1, 24-23-8	‡	2885
Total, 13 wells	1340	
Bellevue Shallow Field—		
Gulf Ref. Co. Bliss & Weatherbee A-8, 15-19-11	700	354
Standard Oil Co. Moorey 1, 28-19-11	¶10	2622
Elm Grove Field—		
Skannal et al Roscoe 1, 14-17-12	¶1	840
Monroe District—		
Windsor Oil & Gas Co. Pipes 1, 18-19-16, Morehouse Parish	¶1	2305
Caddo Parish—		
Dixie Oil Co. Robertshaw 46, 14-21-15	20	1713
Fortuna Oil Co. Robertshaw 14, 23-21-15	20	2872
Louisiana Oil Ref. Corp. Crye 10, 22-21-15	15	2345
Woodley Pet. Co. Noel 12, 25-21-15	65	2387
Total, 4 wells	120	

LOUISIANA DRILLING REPORT

Claiborne Parish

Gilliland Oil Co.'s Sherman 5 and 6, 10, dks; Taylor 7, 14, dr 2305 ft.

Louisiana Oil Ref. Corp.'s Beene A-3, 13, rig; Sherman A-4, 10, skidding over.

Ohio Oil Co.'s Camp 11, 15, wosr 2848 ft; Camp 12, dr 400 ft; Camp 3, Acct 2, 24, dr 2400 ft; Garrett 10, 23, wosr 2852 ft; Garrett 11, 24, dr 2800 ft; Garrett 20, 21, 22, and 23, lcns; Garrett 24, dr 2825 ft; Hunt 18, 16, dk; Hunt 19, 20 and 21, lcns; Sherman 5, 23, set 6-inch 2711 ft; Sherman 6, dr 1715 ft; Sherman 12, 15, wosr 2798 ft; Sherman 13, 15, wosr 2807 ft; Sherman 15, 16 and 17, lcns; Sherman 18, wosr 2810 ft; Sherman 19, wosr 2806 ft; Sherman 2, Acct. 2, 24, set 6-inch 2741 ft.

Smitherman & McDonald's Winn 3, 8, dk; Winn 6, fsh 2930 ft. Standard Oil Co.'s Aiken 5, 26, rig.

Webster Parish

LeGuerre Synd.'s Duke 1, 13-23-9, set 6-inch 2695 ft.

Caddo Parish

Alabama Pet. Corp.'s Barlow 1, 5-21-15, set 4½-inch 2810 ft; Ramft 1, 33-22-15, dry 1063 ft, sd. Amerada Pet. Corp.'s Jolly 1, 27-22-15, showing oil 3211 ft. Arkansas Nat. Gas Co.'s Ardis & Lay 253, 36-22-15, dr 2165 ft. Austin Oil Co.'s Jolly B-4, 21-22-15, lcn; Jolly B-5, wosr 1042 ft.

Chandler & Trahan's Jolly 1, 22-22-15, dr 2845 ft.

Dixie Oil Co.'s Noel B-2, 19-21-14, testing 2392 ft. Doan Oil Co.'s Louisiana Oil Co. No. 9, 5-20-15, testing casing 2700 ft.

Fortuna Oil Co.'s Robertshaw 11, 23-21-15, set 6-inch 2668 ft; Robertshaw 15, 23-21-15, plugging off sw 2914 ft.

McCarthy & Giles's Seaman-Bradford 1, 34-21-15, dr 1115 ft.

Oregon P. & R. Co.'s Oden 1, 27-19-14, testing casing 2150 ft.

Tarver & Bashara's Bashara 6, 23-21-15, testing casing 2808 ft. The Texas Co.'s Caddo Lands 43, 23-21-15, dr 2600 ft; Head 1, 26-21-15, sd 2444 ft; Herndon 6, 14-21-15, setting 4½-inch 2900 ft.

Woodbine Oil Co.'s Robertshaw 3, 23-21-15, testing 1650 ft. Woodley Pet. Co.'s Noel 5, 25-21-15, arranging to deepen.

BELLEVUE SHALLOW FIELD DRILLING REPORT

Gulf Ref. Co.'s Bliss & Weatherbee A-10, 15-19-11, rig.

Humble O. & R. Co.'s Bliss & Weatherbee B-3, and B-4, 14-19-11, lcns; Taylor 1, 16-19-11, lcn.

Louisiana Oil Ref. Corp.'s Bodcau A-9, 15-19-11, sd 1080 ft; Bodcau A-14, and A-16, lcns.

R. O. Roy & Co.'s Scanlan 7, 8 and 9, lcns.

Standard Oil Co.'s Kendrick A-2, 22-19-11, set 8-inch 118 ft; Kendrick B-1, dr 2275 ft; Louisiana Oil Ref. Corp. Fee 3, 11-19-11, lcn; McKinney 1, 14-19-11, dk; Wyche 2, 14-19-11, dr 2375 ft.

ELM GROVE DISTRICT DRILLING REPORT

Atlas Oil Co.'s Caplis 7, 23-16-12, wosr 1552 ft.

Gulf Ref. Co.'s Hodges 11, 24-16-12, dr 3795 ft.

Louisiana Gas & Fuel Co.'s Hodges B-2,

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Think Gas Coming From Trinity at Bellevue

Standard's gas well on Morey, east of field arouses interest; week dull

SHREVEPORT, LA., Sept. 18.—Last week added another gaseous chapter to the history of the development of North Louisiana's oil and gas resources, four interesting gas wells having been completed during the course of the week.

The largest and by far the most important of these completions is the Standard Oil Company's Moorey deep test, located near the center of section 28-19-11, Bossier Parish, at a distance of a little more than two miles southwest from the Bellevue shallow field. The well is making about 10,000,000 cubic feet of dry gas per day from a total depth of 2622 feet—probably from the Trinity sand. During the drilling of this well a showing of unusually high gravity oil was obtained from a depth of 2525 feet.

This completion is of considerable interest to local operators, among whom it has served to revive the discussion of the possibilities of oil production from the deeper sands underlying what is now known to be the most magnificent structure yet discovered in the state of Louisiana. As the situation now stands, gas is being produced from both the Blossom and the Trinity sands; and oil is being produced from the Nacatoch sand. And it will be remembered that the Woodbine sand yielded the first oil ever produced from the Bellevue structure. Many local operators express the hope that further drilling may develop oil production from the deeper sands at points more advantageously located on the structure.

The Standard Oil Company's other two deep tests in this field are coring and drilling ahead slowly in a very cautious manner. The Kendrick well in section 22-19-11 is approaching the 2300 foot level; and the Wyche well, located in the northwest corner of section 14 of the same township, is approaching the 2400 foot level. The Louisiana Oil Refining Corporation's deep test on the northeast forty acres of section 15-19-11 is temporarily shut down at 1080 feet.

Flournoy et al bailed salt water from three feet of sand which was tested last week at a total depth of 2817 feet in their Kirby 1, located in section 36-18-13, Bossier Parish, about six miles east of Shreveport.

Elm Grove

In section 14-17-12, five miles northwest of the Elm Grove field, Skannal et al completed a 1,000,000 cubic feet gasser from a depth of only 840 feet in their Roscoe 1, located on the Sligo structure, the existence of which has been known to local geologists for some time. This well is ten miles southwest from the Moorey well, mentioned above, and ten miles east of the Shreveport gas field in the southern portion of Caddo Parish.

Caddo

The White Oil Corporation rigged up last week to make a deep test in its Caddo 4, located in section 8-20-15, Caddo Parish; but after drilling only three feet deeper a flow of 5,000,000 cubic feet of gas per day was encountered. The present depth of the well is reported as 2040 feet.

Monroe

The Windsor Oil & Gas Company extended the Monroe gas field about four miles eastward last week by the completion of its Pipes 1, located in section 18-19-16, Morehouse Parish, at a distance of about a mile and a half southwest of the village of Windsor.

The Southern Gas & Carbon Company completed a 12,000,000 cubic feet gasser in its Spyker 7, in section 8-20-5, of the older part of the field.

Sarepta

Lloyd Harris' discovery well at Sarepta, in Webster Parish, was opened up through a separator last week, but the tremendous gas pressure and sand quickly cut the connections, making it necessary to shut it in until the separator could be rebuilt with heavier material.

9-16-11, set 6-inch 794 ft. Lakeside Oil & Gas Co.'s Fee 1, 17-16-10, dr 340 ft.

R. O. Roy & Co.'s Caplis 6, 23-16-12, wosr 1558 ft.

The Texas Co.'s Caplis 10, 24-16-12, set 9 5/8-inch 235 ft; Caplis 11, lcn.

MONROE DISTRICT DRILLING REPORT

Ouachita Parish

Atlas Oil Co.'s West Virginia 1, 34-19-5E, sd 2545 ft, will deepen.

Hatcher & Evans' Frierson 1, 20-19-4, set 6-inch 2111 ft. Huber Carbon Co.'s Fee 2, 5-18-5E, setting 4½-inch 2195 ft.

Montgomery Drilling Co.'s Miller 1, 19-18-5, r 2185 ft.

Ouachita Natural Gas Co.'s Allison 4, 18-20-5E, fsh 2220 ft; Walker 2, 32-19-5E, rig.

Southern Carbon Co.'s Fee 13, 9-19-5E, dr 2125 ft; Fee 14, set 6-inch 2160 ft. Standard Carbon Co.'s Vinson 1, 32-19-5E, set 6-inch 2189 ft.

The Texas Co.'s Gibbs 1, 29-19-5E, dk timbers; O'Neill 1, 33-19-5E, rig.

Morehouse Parish

Morris, Trustee's, Crossett 9, 14-21-4, set 8-inch 1100 ft; Tensas 2, 26-22-4E, set 6-inch 2158 ft.

Pipes et al's Marlett 1, 19-20-6, rig.

Richland O. & G. Co.'s West 1, 10-18-6, rig.

Southern Carbon Co.'s Spyker 7, 8-20-5E, set 6-inch 2188 ft.

The Texas Co.'s Tensas 3, 10-20-4E, set 10-inch 2075 ft.

United O. & G. Prod. Co.'s Eldridge 1, 27-20-5E, dr 1215 ft.

SOUTHERN LOUISIANA PRODUCTION

Lake Charles, La., Sept. 18.—The daily average production of the South Louisiana fields for the past week was divided about as follows, the past and previous week's figures being given:

	Past Week	Prev. Week
Vinton	4310	4350
Evangeline	500	450
Edgerly	350	370
Anse La Butte	90	90

SOUTH LOUISIANA DRILLING REPORT

Vinton

Gulf Ref. Co.'s Matilda Gray 1, dr 3625 ft; Star Vincent 26, dr 2850 ft.

Edgerly Pet. Co.'s Lasso 1, fsh 2360 ft. Just Oil & Ref. Co.'s Rodgers 1, dr 4025 ft.

Vinton Pet. Co.'s Gray 35, dr 2095 ft; Harmony 12, dr 2275 ft.

Wilson Tucker's Parks 6, set screen 2450 ft.

Tanner Oil Co.'s Vincent 1, dr 4125 ft. Texas Co.'s Gray 17, rig up.

Seiss and Ratcliff's Green 3, set screen 2300 ft.

Edgerly

Coastal Pet. Co.'s Hunter 1, dr 1590 ft.

Gulf Ref. Co.'s Bright Penn 38, dr 3840 ft.

Evangeline

Hansierre Latrielle Oil Co.'s 1, dr 1600 ft.

C. O. & F. Co.'s Fee 85, sw 2650 ft, dr deeper 2790 ft.

Texas Co.'s Latreille 102, bailing 1930 ft.

St. Martinsville

Gulf Ref. Co.'s Levert-St. John 1, dr 500 ft.

Bouillon Bayou

Gulf Ref. Co.'s Hope Oil Company 3, dr 2020 ft.

Al Reed, sales manager of the American Paint and Supply Company, Dallas, was in South Texas on business during the past week. Al is good company and likes to ride in fast automobiles. He has a line of conversation on the accidents that he has suffered that is enough to turn a normal person from the use of a gas propelled vehicle for the rest of his life.

M. L. Neely of the Iron Mountain Oil Company is back at headquarters in Tulsa from Crawfordsville, Indiana, where he spent his vacation with his family.

Walter K. Campbell, well known producer of the Mid-Continent oil fields, has returned to Tulsa, following a vacation spent in Canada.

EL DORADO PRODUCTION

El Dorado, Ark., Sept. 18.—The average daily production for the El Dorado field in Union County for the last week was divided approximately as follows:

	Barrels
Gulf Refining Company	2,150
Standard Oil Company	2,030
Arkansas Natural Gas Company	1,840
Phillips Petroleum Company	1,060
Constantine Refining Company	950
Humble Oil & Refining Company	760
V. K. F. Drilling Company	700
Woodley Interests	660
Detroit Summerfield Oil Company	660
F. C. Henderson	635
Johnson Drilling Company	575
Sun Company	550
Magnolia Petroleum Corporation	540
Gladys Belle Oil Company	460
Caddo Central Oil & Ref. Corp.	450
Henry Hobbs	440
R. J. McMurray	440
El Dorado Nat. Gas & Pet. Corp.	425
Harrell & Hatcher	400
Livingston Oil Corporation	395
Terry Summerfield Oil Company	375
A. H. Ramage	360
Amerada Petroleum Corporation	360
Arkansas-Invincible Oil Corp.	355
J. S. Richardson	345
White Oil Corporation	345
Associated Producers & Ref. Corp.	325
Skelly Oil Company	325
Webster & Wingfield	290
Pure Oil Company	275
Clark & Greer	265
Hudson Oil Company	255
Weiss Oil Corporation	250
Foster Oil Company	250
Miscellaneous	9,605
Total	30,000

ARKANSAS COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Smackover Field—		
Simms Oil Co. Murphy 1, 28-15-15, Ouachita County	3000	2042
Reynolds 1, 32-15-15, Ouachita County	¶10	1957
Greenwood & McDuff, Houston 1, 12-16-16, Union County	¶30-5	2077
El Dorado Field—		
El Dorado Nat. Gas & Pet. Co. Mellor 1, 1-18-16	600	2950
Garenot Drilling Co. Smith 1, 29-17-14	315	2221
F. C. Henderson Cates 7, 32-18-15	40	2181
Ingalls et al's Thurkhill 2, 28-18-15	200	2136
Morris Drilling Co. Greenlee 1, 28-18-15	40	2129
Standard Oil Co. Murphy 2, 6-18-15	15	2145
Total, 6 wells	1210	

Smackover Producing Enough Oil to Warrant Price Posting; Good Wells In

EL DORADO, ARK., Sept. 18.—The completion of another gusher in the Smackover field has served to bring to the fore the question of marketing facilities and posted price. That this situation soon may be relieved is indicated by reports that both the Standard Oil Company and the Simms Oil Company are soon to construct loading racks and pipe lines to care for the Smackover production. It is rumored in the new field that the Standard Oil Company soon will post a price of 75 cents per barrel for crude produced in the Smackover area.

The completion referred to above is the Simms Oil Company's Murphy 1, in section 28-15-15, Ouachita County, an indirect offset to the discovery well. This well, which penetrated 20 feet of sand at a total depth of 2042 feet, is variously estimated to have flowed at the rate of from 2000 to 5000 barrels per day when first completed. It is now shut in, awaiting storage facilities.

The Harris Drilling Company got a flow of around 5,000,000 cubic feet of gas per day from a depth of 1993 feet in its O'Spaha well in section 36-15-15, Union County, located about a mile and a quarter southwest of the Perry & LeGrand extension, and about four miles southwest of the discovery well; but, being unsatisfied with dry gas, the owners of the well drilled eight feet deeper and it is now spraying a considerable quantity of oil.

Baker et al have tested the 6-inch casing and are ready to drill in on their Murphy 1, in section 28-15-15, a little more than half a mile northeast of the discovery well.

Test Gets Water

Thompson and others, owners of the Arnold well, in section 24-15-16, which failed to pick up the Smackover pay, although it is only two and a half miles northwest of the discovery well, have suspended drilling at a depth of 2370 feet, after having tested salt water at 2350 feet.

The Pool well, in section 20-15-15, which is less than a mile north of the discovery well, was bailed dry again last week at a total depth of 2020 feet, no showing of oil or gas having been observed.

Palmer and others are erecting a derrick on the Laney lands in section 36-15-15, Ouachita County, about two and a half miles southwest of the discovery well and less than one mile southeast of the Perry and LeGrand extension.

Deep Tests at El Dorado

The Standard Oil Company is drilling at around 1200 feet in its Trimble 1, a deep test located in section 1-18-16, which is located in the same section as the well in which the Blossom sand production was discovered.

A great many other deep tests, both in the original field and in the East field, are being planned; but, in most cases, the beginning of drilling in these operations is being delayed pending efforts to collect dry hole money from neighboring lease owners.

EL DORADO DRILLING REPORT

Associated P. & R. Co.'s Thurkhill 3, 28-18-15, wosr 2149 ft.

Barton et al's Willett 1, 18-17-16, dr 2170 ft. Big Four Oil Co.'s Cranston 2, 19-17-14, sd 2138 ft; Rogers 1, 17-18-17, dr 1300 ft. Biles & Wilroy's Brown 1, 20-17-14, rig. Bondurant et al's Stegall 1, 31-18-12, setting 6-inch 2090 ft. Brown et al's Grace 1, 3-18-14, abn 2666 ft. Brown Oil Co.'s Nash 1, 3-19-15, set 6-inch 2070 ft.

Coleman et al's Pendleton 3, 21-18-15, set 6-inch 2120 ft. Constantine Ref. Co.'s Burns 1, 12-18-16, dr 2110 ft; Goodwin 2, 31-17-16, dk; Hinson 1, 7-18-15, dk; Martin 1, 1-18-16, dr 1255 ft; Robinson 5 and 40-3, 6-18-15, dks. Cooper et al's Burns 1, 32-18-15, wosr 2186 ft.

Enfisco Oil Co.'s Greenwood 1, 5-19-15, sd 2190 ft. Equitable Pet. Co.'s Barton 1, 33-17-15, set 6-inch 2042 ft. Eureka Pet. Co.'s Cullens S-3, 4-19-15, testing casing 2136 ft.

Foster et al's Cobb 1, 5-19-15, rig sd. Frank et al's Murphy 1, 20-17-14, set 6-inch 2062 ft. Frost Oil Co.'s Lawton 7, 36-17-16, rig.

Gann & Burke's Murphy 2, 20-17-14, set 6-inch 2139 ft; Murphy 3, dk. Gardner et al's Smith 1, 19-17-14, wosr 2182 ft; Smith 2, wosr 2171 ft.

F. C. Henderson's Pratt 4, 8-18-15, rig. Hudson Oil Co.'s Traylor 4, 4-19-15, wosr 2169 ft.

Jarmon Drilling Co.'s Moody 1, 20-17-14, dr 400 ft. Johnson Drilling Co.'s Benson 3, 4-19-15, dk timbers. Jones et al's Traylor 1, 9-19-15, wosr 2172 ft.

Keen & Wolf's Slaughter 1, 10-17-16, set 6-inch 2057 ft. Kemp et al's Garza 1, 6-19-15, set 12½-inch 220 ft. Knott et al's Nash 1, 29-17-15, wosr 2205 ft.

Livingston Oil Corp.'s Rock Island 8, 33-18-15, set 6-inch 2118 ft.

Magnolia Pet. Co.'s Ingram 1, 20-17-15, rig; McKinney Reed 3, 25-17-16, set 6-inch 2160 ft. Marr et al's Thurkhill 1, 29-18-15, set 6-inch 2150 ft. Montgomery et al's Rogers 1, 10-19-15, sd 2182 ft. Montgomery & Humble's Burton 1, 28-18-15, sw 2159 ft, sd. Morefield et al's Cates 1, 33-18-15, wosr 2182 ft; Cates 3 and 4, lcns. Morris Drilling Co.'s Rowland 2, 28-18-15, dr 1720 ft; Rowland 3, rig. Mutual Oil Co.'s Spooner 2, 29-19-16, set 10-inch 180 ft. McDuff & Greenwood's Newsom 6, 5-18-15, wosr 2129 ft. McLaughlin Oil Co.'s Stowe 1, 5-17-13, sd 2960 ft. McMurray Drilling Co.'s Burton 1, 28-18-15, sd 2147 ft; Brown 1, 20-17-14, dr 1600 ft.

Ozark Oil Co.'s Cranston 3, 19-17-14, wosr 2168 ft; McMurray 1 and 2, 19-17-14, dks; Murphy 1, 20-17-14, wosr 2162 ft; Smith 4, 19-17-14, sd 2180 ft; West 1, 19-17-14, set 6-inch 2102 ft.

D. C. Richardson's Murphy 1, 20-17-14, set 6-inch 2082 ft. Rooker et al's Yarborough 1, 2-17-16, r 1985 ft.

Skelly Oil Co.'s Helwig 6, 6-18-15, wosr

GOOD WELL FOR WEST DOME OIL COMPANY IN MONTANA

(Continued From Page 44)

feet. The well is an offset to the Frantz Harlan No. 3 on Section 10-15-29.

The Golden West well on Section 16-15-30 is continuing to produce 300 barrels daily. An offset to this is being started by the Frantz Corporation in the SE¼-NE¼ on Section 14-15-29.

In the NE-NW¼ section 14-15-29 the Mid-Northern is starting a test.

In the NE¼ Section 14-15-29 the Frantz Corporation is starting two tests.

In Section 10-15-29, the Mid-Northern is nearing the second sand on the Oldham lease.

Better than 500 barrels daily is being pumped by the Frantz Corporation's No. 3 Harlan in section 10-15-29.

Derrick for Harlan No. 4 is already up by the Frantz Corporation.

On the recently cancelled lease tract of 200 acres, independent interests are commencing plans for operations. The first test is to be on SE¼-SE¼ Section 4-15-29.

The Devereux Oil Company is about to start deep test drilling on Section 12-15-28. A 20-foot hole is to be started by Burkes and Clarke, contractors.

Los Angeles, Sept. 15.—Associated Oil Company's earnings for the first 6 months of the year amounted to $6.75 a share as against $7.59 a share for the same period last year. Net assets applicable to the common stock of the company at the first of the year amounted to $149.49 a share. Associated oil is a subsidiary of Pacific Oil, the latter holding 57 per cent of the stock.

Kevin-Sunburst Field Reporting Much Activity; Field Now Has Ten Producers

CASPER, WYO., Sept. 15.—Great activity is reported in the Kevin-Sunburst field by one who has just returned from that district, where there are ten oil and three gas producing wells and one dry hole. "In view of the pessimistic reports being circulated in regard to the field, it is surprising to a visitor to see so much activity in evidence," he states.

"There are 54 rigs up or drilling and 14 new locations with material on the ground. There are ten oil wells, three gas wells, and one only one dry hole. The spread of the area in which commercial production is proved is enormous.

"The California-Morton producer in the southeast is ten miles from the Ohio producers and eight miles from the Gladys-Belle. The Ohio Company is now actually drilling on seven wells and has spotted eight new locations. Their program calls for the completion of 20 more before winter. That company is also building a power plant near the first group of wells, and a permanent winter camp.

The California Company made four new well locations Sunday, two of which are in the vicinity of the California-Morton well in section 13, T. 35 North, 2 west. The Gladys-Belle has started work on two new wells and plans to drill at least six as rapidly as possible. It is reported that the Carter has taken over the Aloe well. About twenty independent operators are drilling. The Illinois Pipeline company has laid fifteen miles of pipeline and is ready to start a ditching machine to bury the lines before the winter.

"The pipeline to the Gladys-Belle well was completed Sunday. Just before the completion of the line Sunday afternoon, the well broke through and gushed filling the cellar and running down the hillside. The pressure was great enough to shoot the oil over the top of the derrick. It took Mr. Roome and his crew more than an hour to get the well under control. Frank Stebbens, president of the Gladys-Belle; John McFadyen, manager, and Charles Hares, chief geologist, of the Ohio Company, W. Richards, Jack Decker and myself were interested spectators.

"It is not too much to say that the developments up to the present have proved this to be a very great oil field with the possibility that it may be one of the greatest in America. While sixty days ago, 75 per cent of the field belonged to the independents, today because of the systematic outside knocking and faintheartedness on the part of the independent companies, 75 per cent belongs to the Standard group. Shallow drilling, railroad facilities and an immediate Canadian market makes this field an ideal one for the independent operator and on account of the immense size, there are still abundant opportunities for independent capital in this field."

2176 ft. Slatz et al's Madden 1, 3-18-15, dr 575 ft. Southern O. & L. Co.'s Armstrong 11, 31-17-15, fsh 2596 ft. Southern P. & R. Co.'s Snowden 4, 20-18-15, wosr 2184 ft. Standard Oil Co.'s Trimble 2, 1-18-16, dr 1100 ft. Stock et al's Bell 1, 20-17-15, wosr 2181 ft; Woods 3, 20-18-15, rig.

Tarkington et al's Cullens 3, 9-19-15, plugging off sw 2197 ft; McKinney 1, 9-19-15, wosr 2187 ft. Terry Summerfield Oil Co.'s Green 1, 19-19-15, dr 2515 ft.

Woodley Pet. Co.'s Lovett 2, 5-18-14, set 6-inch 2083 ft; Burns 5, 32-18-15, testing casing 2120 ft; Horton 1, 2-18-15, wosr 2151 ft; Horton 2, 1-18-15, sd 2262 ft.

Zoder et al's Moody 1, 17-17-14, dr 1725 ft.

STEPHENS DISTRICT

Columbia County

Cox Enterprises Russ 1, 14-16-20, dk.

Haskell et al's Webfer 2, 24-15-20, dr 180 ft.

Hude & Aarnes's Adkins 1, 13-15-20, wosr 2089 ft, flowing 15 bbls.

Murphy et al's Russ 1, 14-16-20, dk.

Oneenan-Wells-Dudney Synd.'s Webfer 1, 25-15-20, wosr 2127 ft; Webfer 2, set 10-inch 105 ft.

Tate et al's Booth 1, 34-16-19, dk; Hall 1, 11-15-20, sd 2450 ft.

Transcontinental Oil Co.'s Curry 1, 5-16-19, sw and show of oil 2255 ft.

Ouachita County

Young et al's Haire 1, 28-15-19, dk.

SMACKOVER DISTRICT

Ouachita County

Bailey et al's Rhoten 1, 32-15-15, rig. Baker et al's Murphy 1, 28-15-15, set 6-inch 1818 ft. Baker, Trustee's, Usrey 1, 36-15-15, fsh 1400 ft.

Dasko et al's Berg 1, 28-15-15, rig.

Forrest Oil Co.'s Goodwin 1, 29-15-15, rig.

George & Jones Drilling Co.'s Umstead 1, 4-16-15, shut in 1964 ft.

Olvey et al's Umstead 1, 5-16-15, preparing to deepen 1895 ft.

Reynolds et al's Pool 1, 29-15-15, dry 2021 ft.

Standard Oil Co.'s Murphy 2, 28-15-15, dk timbers.

Thompson et al's Arnold 1, 24-15-16, dr 2455 ft.

V. K. F. Drilling Co.'s Richardson 4, 29-15-15, rig.

Union County

El Dorado Natural Gas Co.'s Vinson Tatum 1, 11-16-16, sd 2045 ft.

Harris Drilling Co.'s O'Spaha 1, 35-16-16, 5,000,000 cu ft gas 1993 ft, will deepen.

Marr et al's Sexton 1, 4-16-16, rig.

A. R. Beymer, chief geologist for the Paragon Oil Company, headquarters at Wichita Falls, departed this week for a business visit to Bowling Green, Ky.

L. V. Hull, vice president of the Paragon Oil Company and in charge of operations of the company in the Wichita Falls district, returned to Wichita Falls Monday morning after watching the spudding in of the company's test just starting in Schleicher County, Texas.

FENSLAND OIL CO. HAS GOOD WELL IN SALT CREEK FIELD

Casper, Wyo., Sept. 18.—The Fensland Oil Company of Wyoming has completed its No. 1 Farrell, located in the SW¼ of NE¼, Section 18-40-78, in the Salt Creek field, flowing at the rate of 680 barrels daily from the Second Wall Creek sand. The well showed for this amount of production after a third day test taken by the Midwest Refining Company. The top of the oil sand was encountered at 2443 feet and drilled to 2522 feet. The Fensland Oil Company's headquarters are located at Fort Worth, Texas.

George G. Golden, manager of the Wichita Falls office of the Victory Petroleum Company, is back at headquarters after a business and pleasure trip to Pittsburgh, Philadelphia and St. Louis.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig

Development in Allen County Is Very Active

WINCHESTER, KY., Sept. 18.—The Eastern Kentucky field developed a poor week for completions, while Western Kentucky had a nice development. Many of the drilling tools are being hung up, as operators claim they can not produce oil at present prices. It appears that Warren County is the field that is going backward, while Allen County, just to the south is teeming with activity. In Allen County, the Monmouth Oil Company drilled in a 400 barrel well, 50 per cent oil, on the Hinton, at a depth of 226 feet. The Alco Products Company got an 80 barrel well on the Duke at 293 feet, while several 50 barrel wells were brought in from depths of from 176 to 450 feet. Work will likely continue in the Allen County field during the winter season.

The Bowling Green field of Warren County got a few good wells during the week, the best of which was the Wellington Petroleum Corporation's No. 3 Freeman, reported to have pumped 40 barrels in eight hours. This company has taken over the 365-acre lease on the Ewing Willoughby farm, along the Warren-Allen County line, close to the Sledge lease, which had some real gushers at shallow depths below the shale.

Advice from the Buck Creek field, in Cumberland County, is that the McClintock Oil Company drilled No. 2 Radford lease, 45 feet deeper, the well showing a flush of 200 barrels, making it the largest producer for the week in the state.

The Indian Refining Company reports its August runs from Kentucky of 165,911.-13 barrels, distributed as follows: Lee, Estill and Powell Counties, in the Eastern division, 52,230.40 barrels; Allen County, in the Western division, 74,670.65 barrels, and Warren County, 39,010.08 barrels. The Cumberland Pipe Line Company's report for August from Kentucky shows runs totalling 374,399.21 barrels. This company's weekly runs for the week in review from the Eastern Kentucky field totalled 82,809.37 barrels, for a daily average of 13,801.56 barrels.

The Paragon Refining Company's runs from Western Kentucky for August amounted to 32,180.72 barrels, and adding the monthly runs of the Indian and Cumberland Companies, account for a total of 572,491.06 barrels, for the month, out of the monthly runs around 800,000 barrels, other lines not making reports.

KENTUCKY COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Wolfe County—		
Faith Oil & Gas Co. 13 J. B. White	20	....
Lee County—		
The Petroleum Co. 1 W. B. Hobbs	15	....
Clinton County—		
Beech Bottom Oil & Gas Co. 2 W. Sherm Flowers	¶3	....
Ohio County—		
B. Thompson 2 Barlow	10	....
Kentucky Oil Co. 6 Stewart	*	....
Nutty & Pyle 1 Edward Barker	*	....
Daviess County—		
C. L. Daugherty 1 A. E. Simpson	*	1000
Lane & Colt 1 Hamilton	*	1000
Cumberland County—		
McClintock Oil Co. 2 Jake Radford	200	....
W. S. Raydure & Co. 1 Dick Baker	*	....
Johnson-Magoffin Counties—		
Stafford & Accture 5 Elias Blanton	7	....
The Coak Oil Co. 1 S. E. Sebastian	10	....
Couch Oil Co. 1 McKenzie-Sebastian	10	....
Skidmore & Stour 1 Ira Lester	8	....
R. G. Gillespie 1 Sam Blanton	20	....
1 J. D. Moore	8	....
Mid South Oil Co. 1 J. D. Cochran	3	....
Simpson County—		
Unknown Parties 2 Bumpus	*	790
1 Salyer	*	800
Petroleum Prospecting Co. 3 Perry-Pierce	5	612
Flopoka Oil Co. 1 Wright	*	783
7 Reeder	7	598
High Gravity Oil Co. 1 Christian	20	960
F. Y. Patterson 1 John Duncan	*	....
Wellington Pet. Corp. 3 Freeman	40	300
United Petroleum Synd. 7 Sam Martin	25	....
Crump Oil Co. 7 Rodes	15	302
R. G. Gillespie 6 Smallhouse Pike	10	....
Crump Oil Co. 4 Kissler	25	1071
Seminole Oil Co. 9 Still	12	360
Adnasky Oil Co. 2 McGinnis	15	....
3 McGinnis	*	310
4 McGinnis	*	315
5 McGinnis	2	297
United Pet. Synd. 7 Sam Martin	25	1217
Lester Prod. Co. 1 Harris	5	1100
2 Harris	*	1112
Doak & Simon 5 Mary Reed	10	987
Jackson Oil Co. 1 Fred Adams	10	1204
4 Jones	10	1210
C. H. Dixon 4 Tom Covington	2	1127
5 Tom Covington	4	1129
Foster & Rehms 2 Tom Covington	5	1010
Plantation Consolidated Oil Co. Church lot	10	1001
Eisen & Davis 5 B. Almond	15	1094
Wood Oil Co. 7 Garrett-Block	5	1060
Crump Oil Co. 6 Rodes	10	325
Big Jack Oil Co. 35 R. L. Morris	20	1041
36 R. L. Morris	25	1039
Hercules Oil Co. 1 C. Davis	10	497
Big Bone Oil Co. 8 Tarrants	10	970
Unknown Parties 1 Warren	*	490

Pipe Line to Handle Cumberland County Crude Best News of Year

WINCHESTER, KY., Sept. 19.—The Paragon Development Company, a subsidiary of the Paragon Refining Company, has closed all arrangements for the laying of a gathering pipe line to handle the crude of Cumberland County, Kentucky. This announcement was made this week and is the best news from that promising county since the Beatty well was drilled, close to 100 years ago.

Cumberland is the oldest producing county in the United States outside of Boble County, Ohio, and has never amounted to much so far as a producer, being for years without a pipe line to handle its product. All that has been handled for over 20 years has been moved by barges down the Cumberland river. The inability to procure a market has kept this county from being one of the important producing counties of Kentucky, but now that the lease owners can see a market ahead, much work will likely start. Burlsville is the headquarters and a hard place to get into, there being no railroad in the county to handle materials, all of which must be hauled overland or shipped by barges on the Cumberland river.

There is already a fairly nice production in the county which can be increased at a rapid clip, for the McClintock Oil Company and the Associated Producers Company, as well as W. S. Raydure, a well known and large operator, already have production in the Sulphur Creek district as well as in the Buck Creek field. Among the late companies to invade the county within a few days are the Beckley Oil and Gas Company, Ohio Oil Company, New Domain Oil and Gas Company, Petroleum Exploration Company, Union Gas and Oil Company, Atlantic Oil Producing Company, White Oil Corporation, Swiss Oil Corporation, R. G. Gillespie, Kanawha Oil Company, Daniel Boone Oil Company, and others, which means a drilling campaign as soon as these companies are set. Some of the territory is very shallow and then comes the Beaver sand and deeper the Upper and Lower Sunnybrooke formations, better known as the Trenton Rock, the source of production in Ohio and Indiana.

The terminus of the Paragon line will be at Neely's Ferry on the Cumberland river, where storage will be built, and the oil will be run from the fields to Neely's Ferry. Thence it will be shipped by barges down the Cumberland river to Burnside, where other storage will be put in. It will be moved by tank cars from that point, possibly to the Paragon Refining Company's plant on the Maumee river at Ironville, a suburb of Toledo, Ohio.

Railroad Strike Contributing to Slow Week in Ohio; Wells Small

LIMA, OHIO, Sept. 18.—In the fields of Ohio during the week a total of 41 wells were completed, with 14 dry holes, two gas wells with a combined volume of 1,000,000 cubic feet, and 25 oil production wells with a flush production of 380 barrels. The Southeastern Ohio division led with 22 wells, 11 dry holes and 54 barrels; Central Ohio, with 11 wells, two dry, one gas and 230 barrels, while the Northwestern Ohio division showed but 8 completions, with one dry, one gas and 96 barrels flush.

The fact that Ohio failed to keep up to its usual amount of development is not due to any decrease in development work, but the failure to bring in the usual number of completions. The railroad strike, scarcity of supplies and other conditions were the real causes of the inability to get more wells on the pump.

The best completion in the Southeastern Ohio division for the week was made by the Pure Oil Company when it drilled in a 15 barrel well on the Crawford, in Coshocton County.

In the Central Ohio field there are a great many wells within the gas area that are due for completion and the next week or so should see that field well up in numbers of new wells. In Perry County, in the deep Clinton formation, the Paxton Oil Company brought in a 100 barrel producer on the Paxton, while the Chartiers Oil Company struck one with 40 barrels in No. 183 on the Hocking Products Company acreage in the same county. In Hocking County the Arkansas Natural Gas Company"s No. 5 Snyder heirs, shows a flush of 50 barrels. In Licking County, in the old gas area, the Ohio Fuel Supply Company struck a 15 barrel producer on the Conger, while in Medina County, Brinker & Company, struck one of the same size in the shallow Berea sand in No. 2 Buchannan, at 525 feet.

The wells of the Northwestern Ohio division were rather small for the week, the best being but 20 barrels, and was drilled by the Wiser Oil Company in the new field near McComb, in Hancock County, westward from Findlay, and in the more western part of the field, in Van Wert County, the Wheeler Oil Company struck a 17 barrel pumper on the Lewis. Other completions ran from two to five barrels, with a light gas well in Spencer township, Allen County, near Lima.

Fishing tools have been secured and an attempt will be made to grab the string now in the 1900-foot hole of the Jackson County Oil and Gas Company at Napoleon, Michigan, and when this fishing job is completed the well will be sent to a 3500 foot depth unless something of commercial value is found at a lesser depth. This is one of the most important tests in the fields east of the Mississippi river and located on a well defined structure.

SOUTHEASTERN OHIO COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Holmes County—		
Killbuck Oil Co. E. D. Becker 2	3	....
Belmont County—		
Dysart-Mitchell Oil & Gas Co. M. J. Morgan 6	4	....
Monroe County—		
Simmons Oil & Gas Co. Wm. Scott 4	5	....
Coshocton County—		
Pure Oil Co. G. W. Crawford 5	15	....
Jefferson County—		
Timmerman & Co. S. Graham 1	7	....
E. Ferguson & Co. Deal Criswell 4	2	....
Carney Oil & Gas Co. James Cueveny 1	*	....
Noble County—		
Wickens & Co. Leonard Ogele 1	*	....
S. J. Harper & Co. Parker 7	2	....
Hendershot, Nau & Co. Frank Nau 1	*	....
J. H. Yearian & Co. A. Thomas 4	*	....
Felix Gerst & Co. James Shafer 1	*	....
L. A. Patton Mary Shilling 6	2	....
George Morris & Co. James Gordon heirs 6	*	....
Washington County—		
E. P. McCutcheon & Co. Joseph Smith 23	10	....
Peoples Banking & Trust Co. Peoples Oil Co. 19	2	....
Wilson & Co. John Guthburtlet 1	2	....
Hunt Oil Co. Dabley heirs 2	*	....
Frank Paner Pauff heirs 1	*	....
High Gravity Oil Co. 1 Hines	5	982
Plantation Consolidated Oil Co. 2 Simmons	10	1170
Henderson & Co. 1 Farmer	*	750
Victory Pet. Co. 1 Adams	*	800
Noble & Co. 1 Rapids	*	835
Harman & Sweeney 2 J. R. Harris	10	467
C. H. Upper & Co. 1 Art Slate	5	497
4 George Slate	10	494
5 George Slate	8	492
Allen County—		
H. A. Kiser & Co. 1 W. H. Ogles	10	400
3 Absher	5	376
4 Hinton	10	365
17 Shelton	50	288
20 Shelton	50	202
Byrne & Keys 1 Kelley	*	450
Monmouth Oil Co. 4 S. E. Hinton	200	226

CENTRAL OHIO COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Perry County—		
Paxton Oil Co. S. C. Paxton 2	100	....
Berea Gas Co. W. E. Donnelly 3	¶¼	....
Chartiers Oil Co. Hocking Products 183	40	....
John Herland & Co. Earl Harner 4	*	....
H. G. Marietta Fred Becker 21	*	....
Thornily Farm Oil Co. O. W. Thornily 1	*	....
Unique Oil Co. 3 Ban Brown	50	176
Zaskey & Co. 3 Johnson	*	412
Sinning & Wetmore 1 Shep Stone	*	374
E. M. Treat & Co. 1 J. R. Duncan	5	359
Pederson & Co. 1 Boswell	15	340
Friends Oil Co. 13 Mitchell	50	240
Alco Products Co. 9 W. A. Duke	80	293
Warren County—		
E. M. Treat & Co. 6 Seb Smith	10	1234
5 Seb Smith	70	1235
3 Seb Smith	20	1170
Y. T. W. Oil Synd. 1 Creekmore	*	450
Wood Oil Co. 1 G. M. Runner	*	1050
Moore & Co. 1 Slaughter	*	1100
T. P. Tively 3 Hinton	*	....
J. Taylor	*	....
Lester Prod. Co. 3 Ennis	75	1000
Detex Oil & Gas Co. John Yost 1	*	....
Hocking County—		
Ark. Nat. Gas Co. Snyder heirs 5	50	....
Gilbert Davis 1	3	....
Licking County—		
Wehrle Stove Co. H. N. Wright 2	*	....
Ralph Bros. Eliza Sigler 2	4	....
Ohio Fuel Supply Co. W. H. Conger 1	15	....
Medina County—		
Brinker & Co. A. Buchannan 2	15	525
Knox County—		
I. G. Denbow & Co. George W. Miller 6	3	....

NORTHWESTERN OHIO COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Allen County—		
The New Gas Co. G. H. Flaskolla 3	¶¼	1331
William Lang & Co. B. Weaver 1	‡	1374
A. C. Peavey & Co. Ella Lewis 5	5	1348
Hancock County—		
Wiser Oil Co. Charles Rader 1	20	1342
Van Wert County—		
Wheeler Oil Co. D. E. Lewis 1	17	1339
Sandusky County—		
Woodville Operating Co. Ed. Overmyer 5	3	1288
Mercer County—		
Stelzer & McClure J. W. Dutton 7	3	1316
Wood County—		
Bushman Bros. G. C. Diehl 3	2	1324

Permits For New Wells in Texas

Archer County—Texhoma Oil and Ref. Co., Wichita Falls, well No. 28, S. E. part of S. M. Grose lease, Am. Tribune new Colony lands, survey, sec 2, G. H. & S. R.R. Co. lands, start August 29 to drill 2000 feet; well No. 29, same lease as above, N.E. Section of lease, start September 18, to drill 2000 ft. H. W. Blair, Wichita Falls, well No. 5, on 3 line 2nd location from S line H. S. Morrison lease, Block 4, League 3, DCSL Survey, to start September 12 to drill 800 feet.

Atascosa County—Grayburg Oil Co., San Antonio, well No. 9 NW part J. Muennich lease, T. Viastrigo survey, to start September 10 to drill 1800 feet. Witherspoon Oil Co., San Antonio, well No. 3 NW cor J. B. Ricks lease, survey 381, to start September 16 to drill 2000 feet.

Bexar County—Grayburg Oil Co., San Antonio, Texas, well No. 16, NW cor Herman Schmidt lease, Francisco Rollen survey, start August 25 to drill. Val Verde Oil Co., Del Rio, well No. 19, NW part J. Y. Long lease, W. R. Mulkey survey, to start September 6 to drill 1800 feet.

Brazoria County—West Columbia Syndicate, St. Louis, Mo., 920 Victonce Bldg., well No. 1, NW cor W. C. Hogg lease, approx. 4000 acres, Jesse Thompson survey, start September 30 to drill 3500 feet. Hyde Production Co., Houston, well No. 4, SW cor W. G. Leggett lease, Geo. Tenille league, to start September 11 to drill 1500 feet. Sinclair Oil & Gas Co., Houston, well No. 15, Masterson lease, NE cor of lease, A. Darst survey.

Brown County—Walla-Walla Texas Oil Co., 1418 Ave A, Brownwood, well No. 9, 10 and 11, 100 feet from south line 400 and 500 feet apart down the L. L. Evans lease, Kerr Co., Sch. Ld. survey, start September 5 to drill 595 ft.

Chambers County—Mills Bennett, Houston, well No. 2, N end of United Pet. Co. lease, Wm. Bloodgood survey, started August 30 to drill 3500 feet. S. G. Roberts, Baird, well No. 2 on center of E line H. D. Taylor lease, Section 62 D. & D. A. lands, to start September 14 to drill 500 feet. C. O. Moore, Pioneer, well No. 1, near center S half Section 2052 Y. E. & L. Co., Survey, to start September 20 to drill 600 ft. Charles Hart, Brownwood, well No. 1, NW cor E. W. McCollum 80 acre lease, T. E. & L. Co. No. 3199, start September 11 to drill 600 feet.

Caldwell County—United North & South Oil Co., Luling, well No. 4, SW part A. P. Cartwright lease, G. C. Kimble survey, to start September 12 to drill 2300 to 2400 feet.

Carson County—Gulf Production Co., P. O. Box 988, Wichita Falls, Texas, well No. 3, SW cor S. B. Burnett lease, I. & G. N. Co., Section 116, survey, Blk. 5, start September 16 to drill 3500 feet.

Eastland County—J. H. Haynes and J. M. Janner, Eastland, well No. 1, N W corner C. B. Whitten and B. F. Moore lease, Jas. Hannum survey, start September 2 to drill 3400 feet. Alexander and Bates, Eastland, well No. 1, about center of north end of Hill and Beggs lease, H. & T. C. RR Co. survey, start September 20 to drill 3375 feet. Panhandle Refining Co., Dallas, well No. 1, S W cor Owen Estate lease, Section 3 Blk. 3, H. & T. C. Ry. survey, to start September 10; well No. 2 same lease, to start September 15. Plateau Oil Co., Ft. Worth, well No. 1, S E corner J. R. Stubblefield lease, Section 28 Blk. 4 H. & T. C. Ry survey, to start September 10. Associated Oil Co., San Francisco, Cal., well No. 1, at center Joe Burkett lease, Section 1, Blk. 3 H. & T. C. Ry survey, to start September 9 to drill 3400 feet. Texas Pacific Coal & Oil Co., Ranger, well No. 2, S E corner Judge Scott lease, Thos. Benson survey, drill 2600 feet, to start September 18; well No. 1, S E corner G. B. Saucier lease, Thos. Benson survey, start September 18 to drill 2600 feet. States Oil Corporation, Eastland, well No. 3 on N line 750 feet from W line W. R. W. Smith lease, W. B. O'Neil survey, to start September 10; well No. 4 same lease on E line 1100 feet from N line, to start September 8. G. B. Chastain, Ranger, well No. 1 near center J. B. Nix lease, W. R. Stonham preemptn to start Sept 12 to drill 2000 feet. Car De Zone Oil Co., Eastland, well No. 2, near center L. R. Hough lease, Section 3, Blk. 3, H. & T. C. Ry survey, to start September 9 to drill 3352 feet. Forest Miracle Pool, Ft. Worth, well No. 1, S E corner L. King lease, F. W. A. Doyle survey, started July 5 to drill 2500 feet. H. R. Courtwright, Eastland, well No. 1, S W corner L. Kellett lease, Section 28, Blk 2, H. & T. C. Ry survey, to start September 16 to drill 3500 feet.

Gonzales County—H. W. Brewer, Smiley, well No. 1, S W part A. S. Billings lease, Peter Winn League, to start September 10 to drill 2500 feet.

Guadalupe County—United North and South Oil Co., Inc., Luling, well No. 1, N E corner Gorman-Lockhart Oil Co., lease, H. R. Hunt survey, start September 20 to deepen to 3500 feet.

Hardin County—East Batson Oil Co., Batson, well No. 9 N W corner Lone Acre Oil Co. lease, B. B. B. & C. Ry survey, to start September 18 to drill 900 feet. Jacob Austine, West Liberty, Ohio, well No. 1, Jones Heirs 100 acre lease, Wm. W. Young survey, start September 15 to drill 2300 feet.

Harris County—Gulf Production Co., Houston, well No. 19 N W corner Jno. Warren lease, T. Coghill survey, to start September 16 to drill 2000 feet.

Kaufman County—Petroleum Production Co., Ft. Worth, well No. 1 N W corner J. H. McKinzie lease, Wm. Baker survey, to start September 15.

Limestone County—Revere Oil Company, Ft. Worth, well No. 1, S W corner lot 7, Blk. 1 and 2, T. B. Bratton lease, Geo. Gentry survey, start September 5 to drill 3760 feet. Humphreys Oil Co., Mexia, well No. 12, N W part of Henry Heirs lease 192173 A. P. Varela survey, start September 19 to drill 3100 feet. Industrial Petroleum Co., Kosse, well No. 1, N W corner of lot F, Blk. 13, city of Kosse, to drill 3750 feet. Balcones Pet. Co., Dallas, well No. 1, S E corner Mrs. W. W. Arnett lease, P. Varela survey, Kennedy ranch, start September 20 to drill 3200 feet; Limestone County well

(Continued on page 58.)

Perry Scranton to Lay Pipe Line to Kosse Field

Houston, Texas, Sept. 20.—Rumors that Perry Scranton, promising young oil man of Houston, is planning to lay a pipe line from somewhere to Kosse, Texas, were current in Houston during the week after Perry had made his initial purchase of pipe.

The pipe was bought under most unusual circumstances. Perry was driving up to Kosse in a camp-Ford—not being satisfied with the commodious hotel accommodations afforded at Kosse, and at a point somewhere between Houston and Kosse his progress was blocked by a large truck containing camp equipment, and driven by two very husky roughnecks.

Perry honked his horn for them to give him the road, but they didn't give worth a dern. Finally, after taking their dust for a while, he started to go around them. He made the grade all right, but a stove pipe, sticking out from the loaded truck, hung on the side of Perry's car, tore a hole in the top of the Ford and ruined the pipe.

The roughnecks hailed Perry down, and demanded settlement. Perry didn't feel like the settlement should be so one-sided until one of the roughnecks, by way of emphasis, drew out a knife with a blade as long as a grief stem—that's what Perry says. So Perry wrote 'em out a check for $9 to pay for about four joints of stove pipe.

When asked why he didn't stick it out, he said he didn't know whether he had as many lives as a cat or not, but he figured that even if he did, each life was worth at least a dollar to him.

Coffeyville, Kansas, Sept. 19.—Pipe lines to the Butler County fields in Kansas and to the Osage County fields in Oklahoma are to be built by the National Refining Company. They will supply crude for the National plant here. Two pumping plants will be built and 175 miles of line laid.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

Completions in East Are Small and Scarce

PITTSBURGH, PA., Sept. 18. — A small number of completions are reported from the fields of the extreme east during the week, in both Pennsylvania and West Virginia, while New York fails to record a completion. The oil wells as a whole were rather light, although they measure up well in the Pennsylvania division, as small strippers are all that are expected by the operator. Allegheny County shows the best completion for oil in the Pennsylvania end for the week. Sam D. Robinson brought in a 20 barrel producer on the Andy Speer lease, and the Arkansas Natural Gas Company a 7-barrel producer on the Carl Swartz lease.

The 28th Ward of Pittsburgh is getting to be quite an active field and while the wells are not large, it looks as though the biggest part of the city of Pittsburgh is located over an oil field, and has been overlooked for many years. Greene County, as usual, furnishes its good gas wells and out of three of them for the week, two showed a volume of around 4,000,000 cubic feet.

Out of 22 completions in West Virginia for the week, but 7 were oil wells, the total flush production being only 41 barrels, and the best of that number was a 15 barrel well found in the shallow sands of Wirt County by the Heasley Oil and Gas Company. There were 16 gas wells during the week with a casinghead volume of 52,750,000 cubic feet, which is a nice average. Some of the wells ran as high as 5,000,000 cubic feet. Six dry holes were also recorded.

In all the fields east of the Mississippi river during the week a total of 171 wells were completed, with 24 gas wells with a combined volume of 67,750,000 cubic feet, 44 dry holes and 103 oil wells, with a flush of 2,184 barrels, a very small average per well.

PENNSYLVANIA COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Beaver County—		
South Penn Oil Co. M. Nickle 12	1	....
Greene County—		
Philadelphia Oil Co Jesse Carpenter 1	¶4	....
Wind Ridge Oil Co. Robert Yates 1	¶1½	....
Ferguson Oil & Gas Co. Ferguson 1	¶4	....
Allegheny County—		
T. W. Phillips Oil & Gas Co. T. E. Mallisee 5	¶½	....
Thomas McDermott Walters heirs 1	¶	....
Samuel D. Robinson Andy Speer 3	20	....
Black Bros. & Co. H. L. McKibben 5	2	....
Arkansas Natural Gas Co. Carl Swartz 3	7	....
Harbison & Holman 1 John Devine	2	....

Nearly Ten Million Barrels Oklahoma Crude Is Stored East of Mississippi

PITTSBURGH, PA., Sept. 19.—According to pipe line statements for August the total runs from wells east of the Mississippi river amounted to 3,113,009.13 barrels; deliveries, 5,123,087.82 barrels, and the stocks held in the East at the close of August amounted to a total of 18,844,274.73 barrels. Of the stock there is 9,843,035.93 barrels of Oklahoma and Mid-Continent crude, leaving the real stocks of Eastern oil of but 9,001,238.80 barrels.

The total runs of crude from the wells of Pennsylvania, New York and West Virginia for August amounted to 1,209,082.87 barrels, handled by the various pipe lines as follows: National Transit, 236,930.90 barrels; Southwest Pennsylvania Pipe Line Company, 101,088.50 barrels; Eureka Pipe Line Company, 461,976.18 barrels; New York Transit Company, 15,675.21 barrels; Tidewater Pipe Line Company, 153,430.48 barrels; Pure Oil Pipe Line Company, 192,184.78 barrels; Enery Pipe Line Company, 37,075.44 barrels; Pittsburgh Pipe Line Company, 10,721.38. Not accounted for in the above is the Franklin Pipe Line Company, handlers of the heavy Franklin oil, which stocks at the close of August is reported at 27,348.91 barrels. This company handled during August from the wells a total of 3,190.47 barrels, and made deliveries of 1,196.98 barrels.

WEST VIRGINIA COMPLETIONS

Company, well, location	Initial Production bbls.	Depth
Gilmer County—		
E. C. McCall & Co. W. B. Maxwell 1	¶4	....
Pittsburgh & W. Virginia Gas Co. Granville Colllins 1	¶3½	....
Hope Construction & Ref. Co. H. L. Farns 1	¶3	....
J. S. Hefner 1	*	....
Ella Stinebeck 1	¶3½	....
M. D. Allman 1	¶4	....
H. I. Allman 1	¶4	....
Ritchie County—		
Power Oil Co. Volcanic Oil Tract 25	3	....
Manassas Oil Co. Edward Wells 1	*	....
Union Central Oil Co. Omer King 4	¶2	....
Pittsburgh & W. Va. Gas Co. Sommerville 1	¶2	....
Philadelphia Oil Co. L. D. Bush 1	¶2	....
Marshall County—		
Manufacturers Light & Heat Co. J. S. Hager 1	¶3¼	....
Maley-Yeater 2	3	....
G. B. Patterson & Co. McClain-Phillips 1	¶4	....
Unknown Parties Unknown lease 1	*	....
Wirt County—		
Heasley Oil & Gas Co. G. W. Righter 3	15	....
Eight Sands Oil Co. Nau Kidwell 16	3	....
Monongalia County—		
Clay District Oil & Gas Co. Lucy Stull 1	¶5	....
Pittsburgh & W. Va. Gas Co. Jasper Shriner 1	¶3½	....
Clay County—		
Ohio Fuel Oil Co. E. W. King 11	10	....
Kanawha County—		
Ohio Fuel Oil Co. J. M. Young 15	5	....
Wood County—		
E. Johnston W. F. Henry 5	2	....
Calhoun County—		
Godfrey L. Cabot L. S. Penninger 1	¶3	....
Roane County—		
United Fuel Gas Co. Sarah K. Wright 1	¶3	....
Harrison County—		
Delva-Tex Oil Co. Charles Smith 1	¶3	....
Pleasants County—		
Keller & Athey B. N. Veon 1	*	....
Marion County—		
J. C. Cochran Sarah Talkington 9	*	....
Braxton County—		
West Virginia Central Gas Co. Luther Bender 1	*	....

Deliveries Exceed Runs Of Buckeye in Lima Field

Lima, Ohio, Sept. 19.—According to pipe line reports from the Lima field of Northwestern Ohio for August, the Buckeye Pipe Line Company runs amounted to 119,328.72 barrels; the deliveries, 811,444.82 barrels, and crude oil in stocks amounted to 5,607,187.40 barrels. In the Cleveland division of the north part of the Central Ohio field, the Buckeye ran from the wells during the month, 27,044.70 barrels, delivered 1,198.33 barrels and held in stocks at the close of August 37,042.61 barrels. In the Macksburg division of Southeastern Ohio, the runs of the Buckeye Pipe Line Company amounted to 276,400.47 barrels, deliveries, 95,182.31 barrels, making total runs for this one company in Ohio during the month of 422,773.89 barrels, with deliveries of 907,825.46 barrels, and stocks at the close of the month to the amount of 6,184,464.22 barrels. A considerable amount of the crude in stocks possibly emanates from the Louisiana fields around Haynesville.

E. G. Goddard, manager Houston office of the Goulds Manufacturing Company returned last week from a business trip to Wyoming. Mr. Goddard had tea at the Tea Pot dome.

San Francisco, Cal., Sept. 18.—The Associated Oil Company has announced the appointment of John R. Suman as general superintendent of operations for the company in Texas. The appointment became effective August 25. Headquarters will be maintained in the Southern Pacific Building at Houston.

Mr. Suman has for many years been connected with the Rio Bravo Oil Company and is well known throughout the oil world.

Deliveries Doubled by Receipts in Indiana

Vincennes, Ind., Sept. 19.—Little was accomplished by the drill in the Indiana-Illinois field during the week, there being but three completions, two in Illinois and one in Indiana. No new development has been made in the Ohio Oil Company's wildcat well near Bone Gap, in Wabash County, Illinois, although the test is being closely watched and expectations are that something worth while will be found around the 2500-foot mark.

The August pipe lines runs of the Illinois Pipe Line Company from the Illinois and Southewestern Indiana fields shows that this company handled a total of 615,915.73 barrels from the wells, and delivered a total of 236,735.15 barrels, with stocks on hand to the amount of 2,581,696.46 barrels. The Tidewater Pipe Line Company also run from Illinois wells a total of 32,911.53 barrels, delivered 133,726.41 barrels. This makes a total run from Illinois and Southwestern Indiana wells of 648,827.26 barrels, with deliveries of 370,461.56 barrels for August.

In the old Indiana fields, in the central eastern part of the state, the Indiana Pipe Line Company gathered a total of 20,712.43 barrels for August.

No Great Amount of Refinable Crude Is Stored in California

LOS ANGELES, CALIF., Sept. 19.—The bulk of the oil held in storage in California is fuel oil and unfit for refining, according to statistics which are compiled by American Petroleum Institute, combining the work of the statistical departments of the Standard Oil Company and Independent Oil Producers Agency.

Total stocks of oil, formerly classed as crude, amount to 54,000,000 barrels at the close of August. Of this amount approximately 37,000,000 barrels is crude below 30 gravity and refined residuum. There are only 14,000,000 barrels of refinable crude above 20 gravity, including refinery tops in storage at the close of August.

These figures point out the recent reductions in the price of crude were due to the accumulation of fuel oil and the weakness of this product in the market rather than to any over production of gasoline producing crude or lessening demand for refined products.

Daily average production of crude for August was 380,221 barrels, or an increase of over 8,000 barrels a day over July records. There are 612 wells drilling and 109 new wells rigged up during the month.

Standard Gets 4200-Barrel Well at Santa Fe Springs; Best in the Field

LOS ANGELES, CAL., Sept. 15.—The biggest well at Santa Fe Springs is the Koontz 1 of the Standard Oil Company, making 4200 barrels a day of light oil, and putting the Standard among the leaders in production of that field. Union Oil Company and General Petroleum Corporation are the other companies with big production.

Standard also has what is probably the deepest producing well in the state, in this field. The Brownrig Kellar is about 4800 feet, is making 500 barrels a day of 35 gravity oil.

Whittier Santa Fe Springs Oil Syndicate has completed a 3000 barrel well at Santa Fe Springs. The aggregate production from this field is now about 46,500 barrels a day, with at least six wells to be completed within the next ten days, barring accidents. It is calculated that the field will be making over 50,000 barrels a day at the end of the month.

Superior Oil Company's 1 Wordman is making 1000 barrels a day, just completed.

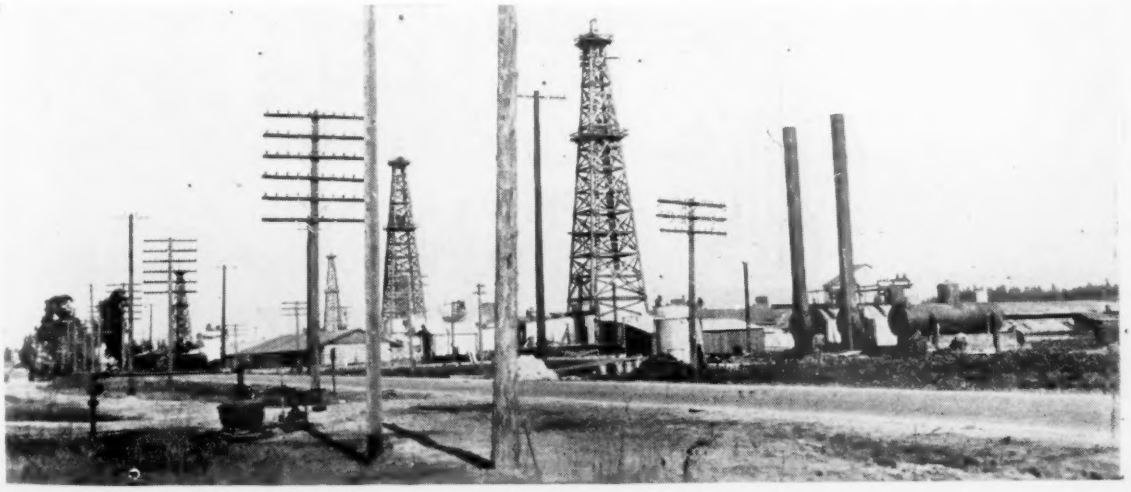
At Long Beach

Production at Long Beach is growing slowly, and is now about 90,000 barrels a day. At present rate of operations, there is just a small margin of gain by new wells over the decline of production from the older wells in the field, so that the total recovery is a little higher each week. During the month of August the daily production for the field averaged 75,000 barrels. The rate at which new work is starting now, however, would indicate that the production of the field may grow rapidly when the wells started within the last month get to the oil sands.

Henderson Petroleum Company's 1 Dodge has just been completed for 1200 barrels. Tehmescal Oil Company's 3 Harlow is a new 1500 barrel well.

It is said that there is a greater amount of new work starting, and nearly ready to start, in the Long Beach field now than at any other time since the field was discovered.

Wichita Falls, Texas, Sept. 18.—The Interstate Gasoline Company (Haskell interests) is laying a 4-inch pipe line from the company refining plant west of Iowa Park from the Gladiolus Oil Company lease at Electra on the Burnett tract, a distance of about 12 miles. It is expected that the line will be running oil from the Gladiolus lease by October 1.



The Santa Fe Springs field in California. Note the hard surfaced road running through the field.

MEXICAN CRUDE PRODUCTION

The daily average production of crude oil in the Mexican fields the past two weeks is divided about as follows:

	Week Ending Sept. 9	Sept. 2
Cerro Azul-Toteco	118,300	130,000
Tierra Blanca	52,300	45,500
Central Amatlan	36,700	28,000
Potrero del Llano	17,200	18,000
Molino	1,425	....
San Geronimo	9,800	10,600
Los Naranjos	14,500	9,700
Chinconcillos	4,000	5,000
Tepetate Casino	8,000	8,000
Alamo	3,500	3,100
Total light oil	295,625	267,900
Panuco District—Heavy	121,000	121,000
Total Mexico	416,625	388,900

Tampico, Mexico, Sept. 15.—The International Petroleum Company completed its well No. 9, fraction 1, lot 4, Cacalilao, for around 1000 barrels, depth 210 feet. This well is about 1000 meters from the Carona No. 4, the largest producer in Panuco, and 100 meters from the Transcontinental's recently completed No. 2. It is near the Cia. Mexicana-Holandesa "La Corona" which is a small producer.

Bandits Get Payroll; Kill One and Wound Two Just Outside Tampico

TAMPICO MEXICO, Sept. 15.—Toribio Almaguer, said to be an American citizen, was killed, two others wounded and the weekly payroll of the Cia. Petrolera del Agwi taken, by six bandits today just outside the city of Tampico. The six bandits escaped with the money, amounting to 42,000 pesos.

The two wounded men are the Mexican driver of the auto in which the party was traveling, and Frank L. Clark, acting acting cashier for the Agwi. The party was enroute the aviation field where the money was to have been sent to Tecomate and Amatlan camps.

Two other payroll cars passed the scene of the hold up within five minutes of the time it occurred, being that of the Texas Company of Mexico and the Island Oil & Transport Company, both carrying small amounts.

Toribio Almaguer, the man who was killed, came here from Laredo, Texas, and is said to have been an American citizen. He was president of the local union of chauffeurs and had several cars in service.

Several are assisting police in the search for the bandits, who are thought to have been in a new automobile carrying no number. It is believed that some of the party must have been wounded when the pistols of the men who were robbed were emptied at them, and all physicians have been directed to report bullet cases to the authorities.

Agwi to Use Wireless; Rains Cut Communication

Tampico, Mexico, Sept. 15.—Rains during last week greatly hampered activities in the oil fields and seriously disrupted communication. In addition to putting many roads in impassable condition, communication by telephone was cut off. This made it difficult for companies to keep track of progress in their wells.

The Agwi Company has secured specifications and cost of radio equipment and will install wireless telephone communication between the terminal and its oil camps, if permission of the Mexican government can be secured. It is probable that other companies will follow suit if the installation is successful, as this means of communication would greatly facilitate business in the district.

Tampico, Mexico, Sept. 15.—Price & Thomey's Boston No. 4, Finca T. Hernanleo, came in last week with production of 2200 barrels at a depth of 1945 feet. The oil is being taken by the Panuco Boston Oil Company.

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Chinconcillo Well Makes Between 4000-5000 Bbls.

Tampico, Mexico, September 15.—The Ramon Diaz No. 7 well in Chiconcillo, on the lease of the Cia Financiera de Petroleo came in last week with production between 4000 and 5000 barrels, which is being taken by the Tide-Mex Oil Company. Trouble was had with the well and much oil was wasted in bringing it in. The exact depth, between 2200 and 2300 feet, could not be ascertained.

Tampico, Mex., Sept. 15.—Three ships, two near this port, were wrecked in the high winds which swept the Gulf of Mexico during last week. The Yucatan, Ward Line freight and passenger steamer, encountered the jetty at the entrance of Tampico harbor, and the Danville, U. S. S. B. tanker, was beached ten miles north of the jetties. The American tanker Robert P. Clark suffered from boisterous weather in mid-Gulf.

Tampico, Mexico, Sept. 15.—Employes of the New England Fuel Oil Company are attempting to recover a tractor sunk in the river near the town of Panuco. The tractor, a caterpillar, was being barged across the river when the barge began to rock, the man in charge of the machine became excited and ran it off into the water. The difficulty of rescuing the tractor has been made greater by a rise in the river, the depth at that point now being 12 to 15 feet.

Czecho-Slovak Government Reported To Have Granted Petroleum Monopoly

WASHINGTON, D. C., Sept. 16.—Official reports to the United States government are to the effect that the Czecho-Slovak government has granted a monopoly for all undeveloped oil lands in that country to a company organized in Prague, in which about 96 per cent of stock is held by the Franco-American Standard Oil Company and the government itself.

The reports state that the new company has been capitalized at 100,000,000 crowns, one-half of which goes to the Czecho-Slovak government in exchange for the monopoly, 46,000,000 crowns is taken by the Franco-American Standard Oil Company and the remainder is underwritten by Credit Bank of Prague.

It was indicated that a development program of large proportions is to be inaugurated within the near future.

Cerro Viejo No. 9 Increases Flow; Strong Gas Pressure

Tampico, Mexico, Sept. 15.—The Cerro Viejo Well No. 9 of the Cia. Mexicana de Petroleo, which came in with an initial flow of 12,000 barrels, has increased rapidly until when it was gauged this week it showed a potential total capacity which has been estimated as high as 65,000 barrels. It is now being flowed for 18,000 barrels of clean oil a day, and has flowed 24,000 barrels in one day. The gas pressure is so great that gauging is difficult, and the oil is being flowed to Potrero, six kilometers away, under its own pressure.

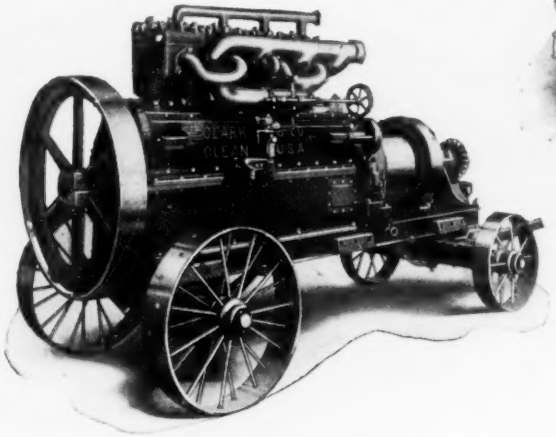
Tampico, Mexico, Sept. 15.—The Marland Oil Company's No. 7 in the Marland Field of the Panuco district has been abandoned at 2820 feet.

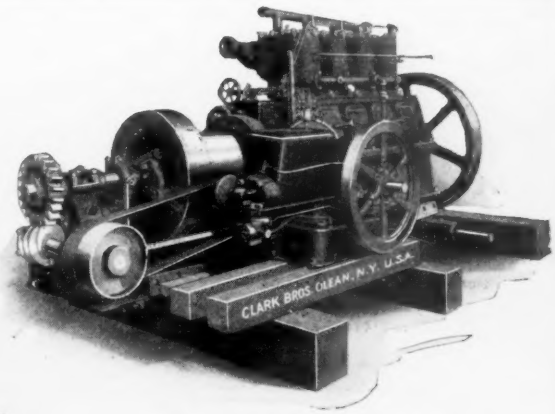
To Train S. B. Engineers In Firing Oil Boilers

Washington, D. C., Sept. 15.—United States Shipping Board engineers are to be sent to the navy school of oil firing at League Island for intensive training of the scientific firing of boilers, if plans discussed today by Captain C. A. McAllister are materialized. Captain McAllister is chairman of the fuel conservation committee appointed by the Shipping Board. Captain Robinson, chief of engineers, has agreed to co-operate with the committee in cutting down fuel costs of government owned merchantmen. Results obtained so far are reported very pleasing to the Shipping Board, some ocean liners having shown better speed at lower fuel cost. It is reported that the Shipping Board may adopt a wage scale which will offer marine engineers and engine room crews some incentive for further reduction of fuel consumption.

SOME FEAT!

Clark gas, gasoline Drilling Engine drills 5025 feet of 8-inch hole on wildcat well near Barstow, Texas, for the Pinal Dome Oil Company. This is one of the deepest holes ever drilled in Texas but it is not an unusual performance for the Clark Engine. One of our users states that it handles the tools at this depth just as well as at 2000 feet.





GASOLINE MOTOR SINKS WILDCAT WELL 5,025 FEET

Barstow, Tex.—The Pinal Dome Oil Co. recently abandoned a wildcat hole after reaching a depth of 5025 feet. The well, one of the deepest ever drilled in Texas, was put down all the way with a gasoline motor. Another remarkable fact about the well is that no casing was used except near the top of the well and when the work was stopped the bit was making 8-inch hole.

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PERMITS FOR NEW WELLS IN TEXAS

(Continued From Page 53)

No. 1, south end of Edwin Smith lease of 50 acres S. H. Bates survey, start September 30 to drill 3200 feet. Pruitt & Ward, Mexia, well No.1, near center Toland strip, Geo. Gentry survey, to start September 20 to drill 4000 feet.

Liberty County—Humble Oil & Refining Co., Houston, well No. 2-B, S W corner A. Abel lease, J. Devore survey, start September 25 to drill 3500 feet; Liberty Co. well No. 1, T. S. Crosbie lease, J. Devore survey, start September 27 to drill 3500 feet.

Milam County—Owens Petroleum Co., Cameron, well No. 8, on E line 3rd location from N line W. P. Henry lease, A. F. Burchard survey, to start September 16 to drill 700 feet; well No. 9, same lease, date and depth, one location S of No. 8; well No. 10, same lease, date and depth, one location S of No. 9. Tidal Oil Co., Tulsa, well No. 9 N W part of T. D. Rountree lease, T. D. Chambers survey No. 2, to start September 8 to drill 700 feet. Fogle Oil Company, Minerva, well No. 1, N E corner Jafus Calvin lease, Jos. Lee survey, start September 14 to drill 1200 feet.

Mitchell County—The California Company, Colorado, well No. 1, near center of W line T. C. Richardson lease, Section 64, Blk. 27 T. & P. Ry survey, to start September 11 to drill 3500 feet.

Nueces County—Saxet Co., San Antonio, well No. 1, on S center line John Dunn lease, to start September 7 to drill 3000 ft.

Navarro County—Humble Oil & Refining Co., Houston, well No. 1, west line of C. S. West estate, G. W. Hardy Trustee, Lapegre E. M. Boren survey, start September 12 to drill 3100 feet. Gulf Prod. Co., Houston, well No. 2, S E corner Mrs. R. V. Bounds lease, Eli Millhouse survey, start September 16 to drill 3200 feet.

Orange County—Gulf Production Company, Houston, well No. 1, N W corner Adelia McGuire lease, Bradley Garner survey, start September 18 to drill 4200 feet; Orange Pet. Co., Orange, well No. 4, Wm. Winfree lease, Wm. Dyson survey to start September 18 to deepen to 4200 feet; well No. 4 at east end Chesson lease, Wm. Dyson survey to start September 18 to drill 400 feet.

Palo Pinto County—D. A. Upham, Mineral Wells, well No. 1 on S center line T. R. Ennis lease, Section 40, Blk A, to start September 15 to drill 4000 feet.

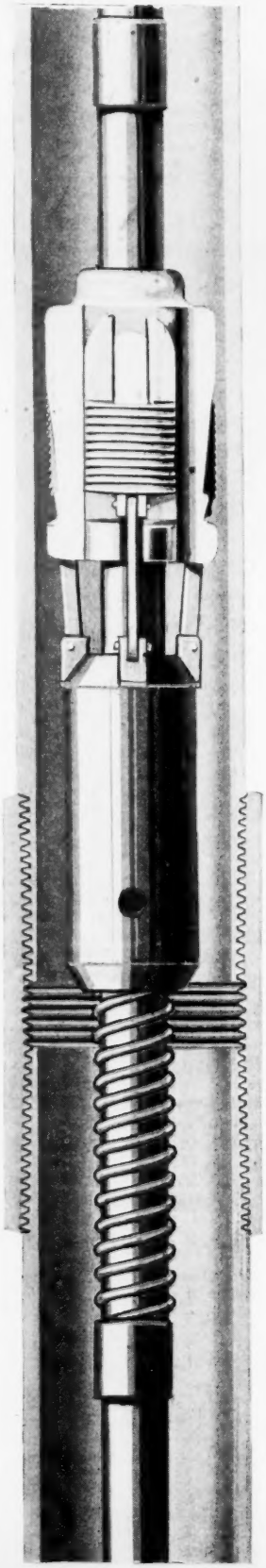
Stephens County—Sun Co., Dallas, well No. 4 on center of E line W. C. Boone lease, Section 83 BAL survey, to start September 20.

Shackelford County—Sam J. Scupas, Breckenridge, well No. 1 N E corner M. L. Rice et al lease, Section 72 UL survey, to start September 8 to drill 1000 feet. L. D. Staton, Moran, well No. 1, S W corner W. H. Prichard lease, Section 11 University Lands survey, to start September 4 to drill 650 feet. A. A. Smith, Moran, well No. 1 near center of W line Section 71 L A L survey, to start September 8 to drill 625 feet. E. M. Powell, Moran, well No. 1 S E corner R. E. Collinsworth lease, Section 13 University Land survey, to start September 7. Charles William Wallace, Wichita Falls, well No. 1, N W corner G. E. Waters lease, Section 34 University Lands, to start September 10 to drill 2500 feet.

Young County—Wells & Spellings, Graham, well No. 1, S E corner H. P. Young lease, B. B. B. & C. survey No. 4, to start September 10 to drill 3150 feet. The Texas Company, Wichita Falls, well No. 3, NE corner Jake Jones 60 acre lease, J. E. Rodgers A1629 survey, start September 15 to drill 3850 feet. Sun Company, Dallas, well No. 4, N E part J. A. Driver lease, Chas. Auburg survey, to start September 12.

Wilbarger County—Number Nine Oil Company, Electra, well No. 2, S W corner W. T. Waggoner 480 acre lease, H. & T. C. R. R. Co., survey, start September 18 to drill 2000 feet; well No. 3, center of east line of W. T. Waggoner lease of 600 acres, start September 28 to drill 2000 feet; well No. 4, W. T. Waggoner lease, S W corner, H. & G. N. R. R. Co. survey 440 acre, start October 8 to drill 2000 feet. Magnolia Petroleum Co., Dallas, well No. 58, S W corner H. & T. C. R. R. Co. lease, H. & T. C. C. R. R. Co. survey, Blk. 13, Sec. 15, start September 17 to drill 1500 feet.

Wichita County—Burns and Gates, Wichita Falls, well No. 1, N W corner Chilson lease, Denton Co. School land survey, start September 15, to drill 850 feet. Burns, Walton & O'Donohoe, Wichita Falls, well No. 1, N E corner of F. H. Rathke lease, S. F. & I. W. Co., ABST 278, (correcting location turned in Aug. 3); well No. 2, 327 feet south of well No. 1, same lease as above. Hobbs Oil Co., Wichita Falls, well No. 9, N W corner Burnett et al lease, Section 1 H. T. & B. Ry survey, Abst 131, to start September 21 to drill 700 feet; well No. 12 same lease, 300 feet N W of No. 6, to start September 12, to drill 500; well No. 16, same lease, 300 feet S of No. 1, to start September 11 to drill 500 feet; well No. 3, N W corner S. I. & H. M. Munger lease, W. V. F. L. survey, to start September 11 to drill 1600 feet. Gulf Prod. Co., Wichita Falls, well No. A-5, S W corner Grace Jennings lease, H. T. & B. RR. Co., Section 11, start September 18, to drill 1500 feet. Hobbs Oil Co., Wichita Falls, well No. 9, 300 feet N of No. L-3 S. B. Burnett lease, W. W. Carroll survey Abst. 436, to start September 16 to drill 500 feet; well No. 10, same lease, date and depth, 300 feet west of No. 7; well No. 11, same lease, date and depth, 300 feet north of No. 4. Fisher & Gilliland, Wichita Falls, well No. 8, near center of west line of J. A. Fisher et al lease, Kepler survey, start September 15 to drill 470 feet. Kansas & Gulf Company, Wichita Falls, well No. 9, N W part of W. W. Viles lease, G. C. & S. F. Ry survey, to start September 5 deepening from 1810 to 1840 feet. The Camp Oil and Gas Co., Wichita Falls, well No. 8, N W corner H. A. Overall lease, J. J. Faulk survey, start September 18 to drill 1000 feet. Hill, Jones and Bell, Burkburnett, well No. 8, S E corner R. M. Waggoner lease, Blk 84, R. R. V. L. survey, to start September 10 to drill 1000 feet. Texhoma Oil & Refining Co., Wichita Falls, well No. 4, S E part S. I. & H. M. Munger lease, Blk 25, W. V. F. L. survey, to start September 12 to drill 1600 feet. R. M. Waggoner, Wichita Falls, well No. 13, on N center line of S. I. & H. M. Munger lease, Blk 25, Munger sub-div, to start September 2 to drill to 1620 feet. G. M. Gellespie et al, Electra, well No. 1-B, S E corner Rio Bravo lease, Section 31, Blk. 5, H. & T. C. Ry survey, to start September 13 to drill 2000 feet.



When Karns' Rig Blew Down

the tubing parted at the casing head

BUT—it fell only a few inches, for there was a GUIBERSON-RICHARD TUBING CATCHER at the lower end of the string.

This happened during the big wind storm in Ohio late in April, on an Arkansas Fuel Oil Company's well. The tubing broke and the casing was bent to one side.

They straightened up the casing and built a new rig, depending on the catcher to hold the tubing meanwhile. Then they lifted up the tubing, took off the broken joint, put in a new length, and started the well to pumping again as if nothing had happened.

They might be fishing yet, with the well idle, had it not been for the tubing catcher.

Supt. W. L. Karns advises that this was just one of many cases in his experience where on one job a GUIBERSON tubing catcher saved more money than it costs to equip a whole string of wells with these catchers.

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WILDCATS FROM ALL SECTIONS

Central West Texas Wildcats

COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Callahan County—		
Aldredge & Tanner Stephens 1	*	295
W. R. Cox et al Ramsey 1....	¶	650
W. T. Low et al J. M. Cunningham 3	*	530
Moore & Westerfields Dyer 1.	*	540
Chas. W. White et al E. L. Dinley 1	*	490
Moore & Seibolt Joe Newman 4	12	360
Moore & Seibolt Joe Newman 5	15	360
J. W. Haynes et al Cunningham 1	*	300
Goodloe et al J. L. Allen 1....	¶	300
Morgan Ridge J. S. Hart 3..	10	415
Mitchell County—		
Reno-Texas Land & Oil Co. C. P. Conoway 1	*	3245
Palo Pinto County—		
Bankers Oil Corp. Lane 2....	65	3155
Owen & Burkett Pennington 1	*	4390
Palo Pinto Oil Co.:		
S. M. Swenson 31	¶3-5	3345
Stuart Bros. 1	40	1650
Wall & Livingston J. H. Robinson 1	*	1725

DRILLING REPORT

BREWSTER COUNTY—Brewster Oil Co.'s Kokernot 1, ur 1675 ft. Marathon Oil Co.'s Nigger Creek 1, sd 2360 ft; Dugout Creek 1, sd 2535 ft. Portland Oil Co.'s State 1, sd 1990 ft. Nine Points Oil Co.'s Perato & Finnell 1, dr 1425 ft. Arco Development Co.'s H. L. Kokernot 1, dr 3320 ft.

COKE COUNTY—Mexia Equitable Oil Co.'s W. J. H. Hodges 1, dr 950 ft.

CONCHO COUNTY—Texas Meers Oil Co.'s Schultz 1, sd 1410 ft.

CRANE COUNTY—B. M. Hatfield Oil Co.'s University 1, sd 315 ft. Texas-Mexia Drilling Syndicate's W. W. Waddell 1, rigged and sd.

CULBERSON COUNTY—Consolidated Sulphur Co.'s Johnson 1, sd 115 ft. G. W. Gossert's Sayles 1, sd 460 ft. T. W. Owens' Jones 2, sd 2845 ft. J. D. Wesner's Sayles 1, sd 2285 ft.

ECTOR COUNTY—Farmers Oil Co.'s Andy Newman 1, dr 925 ft.

EL PASO COUNTY — Burns and Knight's fee 1, sd 1490 ft; fee 2, timbers.

GLASSCOCK COUNTY — Cushing Ranch Drilling Assn.'s W. F. Cushing 1, dr 3980 ft; Sparkman 1, sd 750 ft. General Oil Co.'s L. S. McDowell 1, dr 3740 ft. Associated Prod. & Ref. Co.'s C. I. Brunson 1, sd 2015 ft.

HUDSPETH COUNTY — Boole Oil Assn.'s Gardner & Mosley 1, dr 1080 ft. Cactus Oil Co.'s Jones 1, sd 615 ft. Huaco Basin Oil Co.'s University 1, sd 2565 ft.

JEFF DAVIS COUNTY—Magnet Oil Co.'s Tatum 1, sd 975 ft.

MARTIN COUNTY—Cox Realization Co.'s George Walcott 1, sd 2070 ft.

PECOS COUNTY—Bower et al's University 2, sd 1705 ft. A. S. Luse's G. W. Allison 1, sd 205 ft; Hock et al 1, sd 305 ft. Oregon-Texas Drilling Assn.'s Turney 1, sd 1905 ft. Pecos Valley Oil Co.'s Fuller 1, rig. Polk Prospecting Co.'s Rooney 1, sd 1220 ft. W. S. Troy's Johnson 1, water in hole, trying to shut off 2685 ft. Greer et al's Burnett 1, sd 430 ft, preparing to resume drilling.

REAGAN COUNTY—Texon Land & Oil Co.'s University 1, sd 2035 ft.

REEVES COUNTY—Bell Reeves Oil Co.'s Findley et al, sd 1540 ft. Dixie Land Oil Co.'s Oates 1, dr 2820 ft. El Paso Saragosa Oil Co.'s George Wirt, sd 540 ft. Los Pecos Oil Syndicate's Oates 2, sd 730 ft. Parker-Hancock Synd.'s Johnson 1, sd 1930 ft. Pecos-Angeles Co.'s Pecos Valley 1, sd 1415 ft. Toyah-Bell Oil Co.'s T. P. Land Co. 1, sd 735 ft. Zone Oil Co.'s Kate Tapp 1, sd 735 ft. Willoughby Pet. Co.'s W. D. Cowan 1, dr 615 ft; W. D. Casey 1, dr 200 ft. Pico Pet. Co.'s Johnson 1, sd 1930 ft. Hawkeye Pecos Oil Synd.'s T. P. Land Co. 1, sd 825 ft. Sunshine Oil Corp.'s Van Horn Bank 1, sd 2555 ft. Texas Drilling & Dev. Co.'s Pecos Valley Synd. 1, sd 1105 ft. Chicago Drilling Co.'s H. G. Hersheusen 1, sd 15 ft.

A Paying Wildcat

The Seay-Cranfill discovery well at Richland, Navarro County, Texas. The well was credited with an initial production of 5000 barrels

Mitchell Co. Well Making 5,000,000 Feet of Gas

Wichita Falls, Texas, Sept. 18.—There has been interest this week in the test drilling by the Mitchell County Oil Corporation in Mitchell County on the Badgett lease. The well started making around 5,000,000 cubic feet of gas at 1030 feet and the volume increased to 10,000,000 feet. The gas was dry and refused to ignite and it is thought that it may be carbon Oxide gas, similar to that found in a well in the Panhandle a couple of years ago. The gas in the old well also refused to burn but the pressure soon subsided. The drill is going deeper in the Mitchell County gasser and passed into red beds and found what appears to be a real sand. The further drilling in this well will be watched with interest.

RUNNELS COUNTY—Runnels Prod. Co.'s Russell 2, rig. Safety First Oil Co.'s Allen 1, sd 2845 ft. Winters Oil & Gas Co.'s Lee Sauls 1, dr 3100 ft.

SCURRY COUNTY—Hermleigh Oil Co.'s J. W. Burris 1, sd 1380 ft. Stanton Oil Co.'s J. V. Riley 1, sd 3505 ft. Geo. W. McLung's J. J. Billingsley 1, dr 1000 ft.

SCHLEICHER COUNTY — Paragon Oil Co.'s B. M. Boyd 1, spudded Sept. 16.

STERLING COUNTY—Co-operative Lease & Dev. Co.'s Douthit 1, sd 1675 ft. Chicago O. & G. Co.'s B. C. Durham 1, sd 415 ft. Concho Drilling Assn.'s McIntyre 1, sd 505 ft. Sterling Pet. Co.'s Tom Brannan 1, dr 2320 ft.

TAYLOR COUNTY — Abilene-Texas Pet. Co.'s J. C. High 1, sd 2025 ft. Andy Urbin et al's Parker 1, shows about 30 bbls 36 gravity oil after shot 3380-3445 ft. Sanger Oil & Ref. Co.'s Hale 1, dr junk 1855 ft.

TERRELL COUNTY — Pittsburgh-Western Oil Co.'s Downey 1, sd 1260 ft. Southwest Texas Oil & Gas Co.'s Folsom 1, fsh 3470 ft.

TOM GREEN COUNTY—Ranger Investment & Dev. Co.'s Harris 1, fsh 2855 ft.

WARD COUNTY—Arthur Pitts Oil Co.'s Soda Lake 1, sd 2205 ft; River 1, sd 4675 ft; Valley 1, sd 1685 ft. Cook & O'Brien's G. W. O'Brien et al 1, sd 1175 ft. Trans-Pecos Oil Co.'s Longnecker 1, sd 1755 ft.

BROWN COUNTY—Bailey et al's Mrs. M. L. Cleveland 1, sd 1540 ft; J. B. Turner 2, sd 1730 ft. Brownwood Prod. Co.'s A. J. Williams 5, dr 2035 ft; Williams 6, dr 1250 ft; M. M. Cox 1, rig. C. R. Cox et al's Willis 1, fsh 920 ft. Central Oil & Dev. Co.'s Busby 1, timbers. Canyon Oil & Gas Co. and T. B. Slick's Star 1, set cas 2890 ft; Star 2, rig. Fox & Lamb's M. M. Coy 1, rig. Infield Pet. Co.'s T. M. Windham 2, dr 200 ft. Jordan Pet. Co.'s Sam Spark 1, sr 655 ft. Junior Oil Co.'s Byrd 1, sd for water 1340 ft. Leonard &

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WHITE
Oil Corporation

Slick et al's Prather 1, making 6½ million cu ft gas 1400 ft. Maher Brothers' Bohara 1, sd 2155 ft. Miller & Malloy's Hickman 1, dr 1450 ft. Omaha Southern Pet. Co.'s T. M. Windham 1, rig. Price & Manteris et al's J. H. Buzbee 1, dr 1250 ft. Preston Oil Co.'s M. M. Cox 2, fsh 1395 ft; Cox 3, rig. Scott & Anderson's W. R. Chambers 1, ur 2370 ft. Tippet & Sons et al's J. W. Taber 1, dr 1730 ft. Wallace & Davidson's Edrington 1, sd for cas 2185 ft. Williamson Oil Co.'s M. M. Cox 2, dr 2010 ft.

CALLAHAN COUNTY—Bryon-Union Oil Co.'s Hennessey 1, sd 3315 ft. Jack Bettis et al's McCool 1, sd 390 ft. Dudley Oil & Gas Co.'s Hugh Moore 1, sd 110 ft. Edgett Pet. Co.'s T. D. Woody 1, sd 1370 ft. Kneillsey & Kelly's R. D. Williams 2, spudded and sd. F. P. Lyons et al's Baird 1, to abn 2605 ft. Moore & Sneboldt's Mrs. L. Slaughter 1, machine. Norman Drilling Co.'s Harris 1, sd 3315 ft. Homer Peoples et al's Hughes 1-A, sd 515 ft, to dr deeper. F. W. Stone & Co.'s McDermitt 1, dr 2940 ft. Sample & Herbert's E. L. Finley 3, setting cas 575 ft. B. E. Taylor et al's W. D. Clinton 1, sd 280 ft. Ungreen, Simon & Brooks' R. C. Wylie 1, sd 475 ft.

ERATH COUNTY—Master Oil Co.'s Hill 1, sd 3510 ft. Marshall Spoonts' McClesky 1, dr 1900 ft. Texas-Iowa Oil Co.'s J. C. Laney 1, making 2½ million ft gas, sd 2640 ft. Waetherall Prod. Co.'s Fulfer 1, dr 3200 ft; Fulfer 2, sd 180 ft.

HOOD COUNTY—P. H. McKenna's Williams 1, dr 850 ft.

HOWARD COUNTY—Fensland Oil Co.'s Read 1, to set cas 3060 ft. Maxwell & Johnson's Wm. Capps 1, sd for water 2550 ft. Big Springs Prod. Co.'s Mable O. Quinn 1, sd 3645 ft. General Oil Co.'s Roberst 1, sd 3155 ft.

JOHNSON COUNTY—Johnson Oil & Dev. Co.'s showing oil, sd for cas 3755 ft.

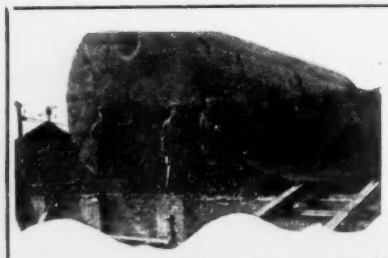
MITCHELL COUNTY—Chal Daniels' L. E. Lesure 1, to test on pump, 3100 ft. California Co.'s T. C. Richardson, rigged. Colorado-Texas Pet. Co.'s W. L. Foster 2, sd 2610 ft. Crescent Drilling Co.'s Nat Smith 1, sd 2430 ft. Underwriters Prod. & Ref. Co.'s T. P. Land Co. 2, placed on pump, looked good for 50 bbls, repairing tubing 3150 ft. A. T. Spaulding et al's Zulpha Morrison 1, sd 2555 ft. Flesher Pet. Co.'s P. C. Coleman 1, setting cas 2305 ft. Maxwell & Johnson's E. H. Stewart 1, sd 3050 ft. Western Pet. Co.'s Etta Brennan 1, dr 3550 ft. Henry Riley's W. A. Murphy 1, dr 3440 ft. Mitchell County Oil Corp.'s W. H. Badgett 1, making 10,000,000 ft gas, non-inflamable, 1030 ft, dr deeper. Magnolia Pet. Co.'s W. L. Foster 1, dr 1450 ft. Pet. Operators Assn.'s E. Morrison 1, rigging. Ray Knight's Ed Dupree (Sec. 33) 1, rig. S. A. Sloan et al's Sam Smart 1, rigging.

PALO PINTO COUNTY—Will Anderson et al's Mrs. W. P. Anderson 1, sd 2385 ft. Andrews & McFarland's D. C. Harris 1, sd for water 760 ft. Ashe Synd.'s Mrs. J. B. Hart 2, rig. Black-Dalton Oil Co.'s H. H. Green 1, rigged. Buffalo-Brazos Oil Co.'s R. S. Dalton 1, sd 815 ft. Big Four Oil Synd.'s Pennington 1, rig. California-Dalton Oil Co.'s R. S. Dalton 1, dr 3000 ft. Canadian Pet. Co.'s Pennington 1, dr 3790 ft. Clark & Burch's Mrs. L. F. Conklin, dr 800 ft. Dehart & McKay's Seaman 1, sd 950 ft. Dalton-Clark Oil Co.'s H. H. Green 1, sd 3700 ft. Dalton Pet. Co.'s R. S. Dalton 1, rig. Dalton Oil & Gas Co.'s R. S. Dalton 1, fsh 3575 ft. Dalton Oil Co.'s R. S. Dalton 2, set 6-in 3310 ft; Dalton 3, rig; Dalton 4, rigged and sd. Dittman Oil & Gas Co.'s Hughes heirs 1, sd for water 1950 ft. Empire Oil & Gas Co.'s Gill 3, machine. Gibson-Sinclair & Strong's J. T. Holt 1, sd 1040 ft. Hart Oil Corp.'s Mrs. J. B. Hart 5, showing oil, some gas, co after shot 3160 ft; Hart 7, hole full of oil 3150 ft; Hart 8, dr 2000 ft; Hart 9, set 6-in 2995 ft. J. P. Harris et al's J. T. Holt, timbers. Hedrick Oil Corp.'s Caudill 1, rig. J. B. Hedrick et al's Huey 1, crooked hole 700 ft. A. A. Haubert et al's Tipton 1, sd 360 ft. H. N. Harris et al's G. N. Weldon 1, dr 1575 ft. E. G. Johnson et al's Howard 1, sd 2570 ft. Littlefield Oil & Gas Co.'s Smith 1, dr 2865 ft. Miller-Dalton Oil Co.'s R. S. Dalton 1, dr 2700 ft. Milton & Floyd's Malry 1, sd 750 ft. Magnolia Pet. Co.'s Turnet-Green 1, showing oil and gas, sd 4009 ft; Ferris-Dalton 1, dr 4180 ft; Ferris-Dalton 2, dr 1270 ft. I. B. McGarr & Sons et al's R. S. Dalton 1, sd 4225 ft. S. W. Manning et al's R. Hitson 1, spudded and sd. McPhail Oil Co.'s Eubanks 1, fsh 1210 ft. Nash & Windfohr's Eubanks 1, sd top of sand 3270 ft. Nelson Oil Synd.'s Finch 2, fsh 3150 ft. Owens & Burkett's Gray-Sanger 1, dr 3970 ft. Phoenix Oil Trust's R. S. Dalton 1, sd for water 1675 ft. Prod. Oil & Gas Co.'s R. S. Dalton 1, hauling tools. Roddy et al's Carter 1, making 2,000,000 ft gas, showing oil, rig burned, 1445 ft. Ross & Brooks' Pennington 1, making 1,000,000 ft gas, 10 bbls oil, sd 4120 ft; McClure 1, rig. A. T. Strong & Co.'s L. E. Seaman 1-A, sd 3160 ft. Rufust G. Smith's Seaman 1, hole full oil, sd 1370 ft. Silver Rock Oil Assn.'s Moseley 1, rig. Seaboard Oil & Gas Co.'s W. L. Costello 1, sd 3045 ft. Southern States Oil Co.'s Belle Raquett 1, dr 1200 ft. Sands & Thompson's fee 1, spudded and sd. Sun Co. and Pender et al's Mrs. J. B. Hart 2, lcn. Marshall Spoonts' J. B. Doyle 1, spudded and sd. J. W. Sappington et al's R. S. Dalton 1, rig. Southard Pet. Co.'s W. M. Bird 1, rig. S. J. Taylor et al's Belle Raquett 1, plugged to abn 4243 ft. Tibbetts, Johnson & Ashburn's J. K. Weldon 1, spudded and sd; McClure 1, lcn. Thompson, Senter & Nance's Legsdon 1, sd 685 ft. D. A. Upham et al's Belding 3, sd 3775 ft; Bedling 5, fsh 1980 ft; T. R. Ennis 1, rig. Webb & Murphy et al's P. Dalton 1, spudded and sd. Youkan Oil Co.'s Seamans 1, spudded and sd.

PARKER COUNTY—Capital Pet. Co.'s McFarland 1, sd 1505 ft. F. K. Conner's Reynolds 1, sd 1310 ft. Dittman-Thompson et al's Fondren 1, rig. Hale & Knight's Davis 1, sd 2905 ft; Bradley 1, sd 4500 ft; Mankins 1, dr 2520 ft. Jackson & Cathcart's Emberlin 1, to set 6-in 2530 ft. I. B. McGarr et al's Estes 1, sd 3290 ft. Talbert Drilling Co.'s Gilbert 1, machine.

TARRANT COUNTY—Fort Worth Oil Co.'s J. W. Wray 1, to set cas 3485 ft. Texland Prod. Co.'s Dr. W. H. Davis 1, rig. Souse et al's Henderson 1, sd 1360 ft.

VAL VERDE COUNTY—Fensland Oil Co.'s Abb Rose 1, set 10-in 1607 ft, sd 1650 ft. Huber Oil Co.'s W. F. and W. E. Whitehead 1, dr 1075 ft. Reclamation Oil Prod. Co.'s J. B. Moore 1, set cas 2735 ft.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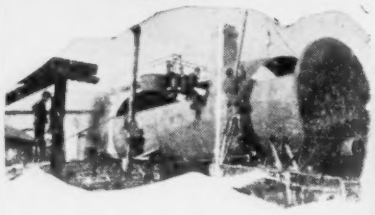
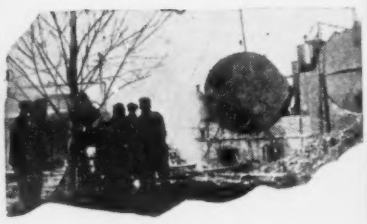
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RECOGNIZED PETROLEUM GEOLOGISTS

Wichita, Falls, Texas, Sept. 19.—The Paragon Oil Company spudded a test the company is to drill in Schleicher County, Texas, last Saturday on the B. M. Boyd ranch. The test is to be drilled to 3000 feet if oil or gas in sufficient quantities is not found at a lesser depth. B. M. Boyd, owner of the ranch, lives at Santa Monica, Calif., 811 Second Street, and is preparing to lease other land in that county where he owns several thousand acres. This is the only well drilling in the county and several other concerns have taken protection leases.

North Texas Wildcats

COMPLETIONS

Company, Well, Location	Initial Production Bbls.	Depth
Archer County—		
The Texas Co.'s W. Beck 6...	175	1597
Texhoma Oil & Ref. Co.'s Netherton 1	25	1603

DRILLING REPORT

(Note—The drilling report below does not show wells that are shut down indefinitely.)

ARCHER COUNTY—Alfalfa Oil Co.'s L. C. Herron 1, sd 950 ft. Dee & Bellport's S. M. Cowan 1, dr 2900 ft. C. Evert's Veith 1, sd 1450 ft. F. & H. Synd.'s W. P. Ferguson 3, moving in rotary. Iowa Park Oil Co.'s W. Andrews 1, dr 640 ft. Kentucky Oil Assn's W. H. Taylor 1-A, set cas 1603 ft; Taylor 2-A, dk; Taylor 5, dr 212 ft; Taylor 6, dk. Lipe et al's W. L. Andrews 2, dr 425 ft. Looney & Loper's L. F. Wilson 1, sd 915 ft. Maxon Oil Co.'s W. H. Taylor 2, dk. J. J. Perkins' J. Haggard 8, preparing to pump 1606 ft. Plate et al's R. E. Farmer 1, sd 1570 ft. J. I. Staley's J. Haggard 5, testing 1605 ft; Kemp & Kempner 1, std 1441 ft; Kemp & Kempner 2, dr 600 ft. Sunshine State Oil & Ref. Co.'s W. P. Ferguson 1, testing 1440 ft. Mike Sullivan Oil Co.'s S. Wilson 1, dr 1200 ft. Smith et al's G. T. Netherton 1, rigged up and sd. Swastika Oil Co.'s J. T. Richardson 1, dr 1500 ft. Scott & Gose' S. M. Gose 1, dr 400 ft. The Texas Co.'s W. Beck 7, dr 1330 ft; Beck 8, dr 1475 ft; Beck 9, 10, 11 and 12 lcns. Texhoma Oil & Ref. Co.'s S. M. Gose 28, testing 1598 ft; Lyles 1, dr 1540 ft; and T. B. Wilson 2, dr 1360 ft. White Oil Corp.'s Kemp & Kempner 1, sd 1430 ft.

CLAY COUNTY—Barker & Shelby's J. N. Craig 1, sd 715 ft. Gulf Production Co.'s C. M. Worsham 1, dr 1000 ft. Nebraska Oil & Gas Co.'s W. H. Myers 1, fsh 2700 ft. Lone Star Gas Co.'s Stine 16, dr 1765 ft; Miller 1, dr 1411 ft; Edrington 3-A, co 2175 ft. Riddle et al's W. J. Hawthorne 1, dr 600 ft. Scaling Oil Corp.'s Geo. Scaling 1, sd 980 ft. Stover & Shira's J. H. Spivey 1, sd 360 ft. The Texas Co.'s Byers 45, dr 200 ft.

COOKE COUNTY—Powell et al's Whaley-Jones 1, sd 745 ft.

GRAYSON COUNTY—Peters Oil Co.'s T. Butcher 1, dr 3912 ft. Preston Anticline Oil Co.'s Munson 1, sd 3650 ft. Revere Oil Co.'s Exstein 1, fsh 2390 ft.

HARDEMAN COUNTY — Mid-West Pet. Co.'s Mulkey 1, sd 2715 ft. Nee-No-Shee Oil Co.'s Stewart 1, dr 2750 ft. Walker Oil Co.'s W. L. Lance 1, sd 1505 ft.

JACK COUNTY—Barrett et al's Mrs. E. Leatherwood 1, co 3100 ft. Copeland-Spoontz's Lindsay-Boyd 1, dk. Mitchell Oil Co.'s Myers 1, fsh 700 ft. Mercier & Casey's Hoefle 1, dk. Ralco Oil Co.'s Loving 1, fsh 3515 ft. Roxana Pet. Corp. Williams 1, fsh 4615 ft. Silver Star Drilling Corp.'s Coker 1, sd 895 ft.

MONTAGUE COUNTY—Bowie Chief Oil Co.'s C. H. Boedeker 1, sd 1520 ft. Boyd Drilling Co.'s Dr. Potter 1, sd 1650 ft. S. L. Fowler et al's S. L. Fowler Ranch 1, dr 1020 ft. Petroleum Producers Co.'s J. W. Maddox 1, shut in gas well 845 ft. Raymond Oil & Dev. Co.'s Summerour 1, sd 1800 ft. The Texas Co.'s J. E. Lemons 1, shut in gas well 762 ft; Lemons 2, dr 480 ft.

WILBARGER COUNTY—Aurora Oil & Gas Co.'s F. Ogelby 1, dr 2290 ft. Burton et al's Wharton 1, sd 2065 ft. D'Yarmett & Spencer's W. T. Waggoner 1, dr 1750 ft; Waggoner 1, sec. 1, dr 65 ft. Modern Pet. Co.'s Waggoner 1-B, sd 1950 ft; Waggoner 1, sd 900 ft. Noble Oil & Gas Co.'s Thompson 1, sd 3140 ft. Planet Pet. Co.'s Waggoner 1, dr 2390 ft. Zacaquiesta Oil Co.'s A. B. Wharton 1, sd 1710 ft.

Texas Panhandle Wildcats

COMPLETION

Company, Well, Location	Initial Production Bbls.	Depth
Carson County—		
W. W. Silk et al's S. B. Burnett 1	250	3075

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DRILLING REPORT

(Note—The drilling report below does not show wells that are shut down indefinitely.)

CARSON COUNTY—Gulf Prod. Co.'s J. I. Wynn 1, ur 3575 ft; and Burnett 3, lcn. The Texas Co.'s S. B. Burnett 1, dr 2935 ft. Tipton et al's McConnell 1, dr 2255 ft, have show of gas.

CHILDRESS COUNTY—Childress-Duluth Oil Co.'s Clutts 1, sd 3900 ft.

COLLINGSWORTH COUNTY—Campbell et al's Stokely 1, sd 1100 ft. United Oil Co.'s Hennard 1, ur 2900 ft.

DONLEY COUNTY—Atlanta Oil & Dev. Co.'s Grogan 1, dr 3350 ft. Swanson Oil Co.'s Moreman 1, dr 2200 ft.

GRAY COUNTY—J. Harvey et al's Brown 1, dr 3095 ft. W. W. Silk et al's G. W. Medley 1, dr 1110 ft.

HALL COUNTY—Craola Oil Co.'s Funston 1, sd 1080 ft. Home Peoples Oil Co.'s Barnett 1, co 2410 ft. Swanson Oil Co.'s Sexeours 1, sd 700 ft.

HUTCHINSON COUNTY — Coble Haywood Synd.'s Coble 1, sd 3740 ft. Gulf Prod. Co.'s Dial 1, fsh 3490 ft. H. T. McGee et al's Smith Cappers 1, sd for tubing 3166 ft. J. Whittington's R. Sandford 1, dk.

MOTLEY COUNTY—Minneapolis Oil Corp.'s Echols 1, dr 4704 ft.

POTTER COUNTY — Amarillo Oil Co.'s L. Bivens 3, dr 2500 ft; Masterson 3, dr 2395 ft.

Coastal Wildcats

ANDERSON COUNTY—Hudgens et al's Turner 1, dk. Old Colony's Graham 1, lcn. Palestine Oil & Dev. Co.'s Hugo Monnig Plantation 1, dr 1250 ft. J. E. Winans et al's Parker 1, fsh 1500 ft. Roeser Pet. Co.'s Brooks & Auld 1, set casing 3400 ft.

BASTROP COUNTY—Smithville Drilling Co.'s Adanchick 1, fsh 1000 ft. Triangle Oil Synd.'s Fritag Valenta 1, dr 1675 ft. J. W. Watson et al's Tom Watson 1, sd 430 ft. J. A. Mitchell et al's Ramsey 1, dr 1200 ft.

BELL COUNTY—Nolan-Bell Oil Co.'s Bacon 1, to sdtr 2155 ft. J. B. Hartman's Warrick 1, sd 2335 ft.

BRAZORIA COUNTY—E. R. Mallory

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

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et al's Emmett 1, dr below 2500 ft. Rancho Esabella Synd.'s Rudiger 3, sd 2800 ft. Mustang Oil Synd.'s Allison 2, dr 3475 ft in gumbo. Oliver Hall Oil Corp.'s Hall 1, sd 1990 ft. Atlantic Prod. Co.'s Strobel 1, sdtr 2200 ft, dr 2820 ft. Reed Dev. Co.'s Jamison 1, waiting on 3-inch drill stem 3200 ft, have had small showing of oil. Transcontinental's Breen 5, dr 3600 ft. Faust et al's Faust 3, dr 2675 ft. Wilkerson Oil Assn.'s 1, located 700 ft south of north line and 700 ft west of east line of Croessus Oil Co.'s lease, lcn.

BRAZOS COUNTY—Warren Oil Co.'s Mooring 1, sd 4320 ft. Cobbs Bros.' Williams 1, sd 2380 ft. Two Rivers Oil Co.'s Tabor 1, sd 1870 ft.

BURLESON COUNTY—Frank Balcer et al's Marek 1, sd 1440 ft. Caldwell Pet. Co.'s Speckman 2, dr 1575 ft. Federal Prod. Co.'s Giesenchlag 3, sd 900 ft. Swastaca Oil Co.'s Rogers 2, dr 1050 ft. Chriesman Oil Co.'s Phelps 1, sd 900 ft.

CALDWELL COUNTY—United North & South Oil Co.'s Cartwright 4, bailing 2300 ft. Producers Oil Co.'s 1, dr 1525 ft.

CAMERON COUNTY—Rio Grande & Gulf Co.'s Champion 1, sd 4690 ft.

CALHOUN COUNTY — World Oil Co.'s Ruth 1, sdtr drill stem at 2250 ft, td 3198 ft.

CHAMBERS COUNTY—Thorning et al's LaCour 1, sd 2440 ft.

CHEROKEE COUNTY—Colliton Oil Co.'s Clapp 1, dr 2700 ft.

COLORADO COUNTY — Columbus Bernardo Oil Corp.'s Kaiser 1, sd 985 ft.

ELLIS COUNTY—Beecher et al's Witherspoon 1, dr 3400 ft. Rolck-Banday's Hoosier 1, sd 1000 ft.

FALLS COUNTY — Mayflower Oil Co.'s Covington 1, dr 2300 ft. Highbank Oil Co.'s Peacock 1, sd 1625 ft. Penn-Texas Leasing Synd.'s Bargainer 1, sd 2140 ft. Texalo & Hill Oil Co.'s Harlan 2, dr 1850 ft. Balto-Texas Oil Co.'s Price 1, rigging up. Denny-Mexia Oil Co.'s Knapp 1, dr 3650 ft. Pearce Pet. Co.'s Clark 1, dr 2700 ft.

FORT BEND COUNTY—Iona Oil Synd.'s Moore 1, at Moore's Mound, dr 2910 ft; Hellmuth 1, dk. Gulf Prod. Co.'s Wheat 1, flowing 65 bbls at 560 ft; Davis 2, dr 3325 ft; Wheat 3, spudded in. Belvedere Synd.'s Belvedere 1, sd 3500 ft. Big Creek Oil Co.'s Moore & Hager 1, dr 1650 ft. Richmond Fort Bend County Oil Synd.'s Bryan 1, rigging up. Neilan Oil & Ref. Co.'s Gubbels 1, dr 2800 ft; Brown 1, dr 2150 ft. Gulf Dev. Assn.'s Voegell 1, dr 1075 ft; Peckham 1, lcn. Lee et al's Ahlers 1, sd 1250 ft, waiting for fuel. L. W. Wright et al's Booth 1, to spud in this week.

GALVESTON COUNTY—Sun Co.'s Cade 4, oil standing 1500 ft in hole, to pump 2435 ft. Texas City Oil Corp.'s Logan & Cook 1, sd 700 ft. The Pioneer Oil Co.'s Johnson 1, rigged up. Patton Oil Co.'s Cade 5, bailing 150 ft. High Island Mineral Co.'s 1, dr 165 ft.

GONZALES COUNTY—H. W. Brewer et al's Winn 1, set 12½-inch casing 200 ft. Pioneer Oil & Gas Co.'s Patterson 1, rigging up to use oil for fuel. H. W. Brewer et al's Winn 1, good showing of oil and gas at 360 ft, now dr below 500 ft in sandy shale. This well is about 30 miles south of the Luling well in Caldwell County.

GRIMES COUNTY — Navasota Oil Co.'s Vickers 1, sd 3200 ft. Terry Dev. Co.'s Upchurch 1, sd 685 ft. King & Olsen's Stephens 1, sd 3495 ft.

HARRIS COUNTY—Texas Exploration Co.'s Warren 5, set casing 4300 ft; Warren 7, dr 550 ft in rock. Thomas Oil Corp.'s Bender 2, dr 1775 ft. Betty Lee Oil Co.'s Neese 1, sd 1870 ft. Tar-

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Tex Oil Co.'s Stewart 2, sd 2350 ft. The Humble Gulf Coast Oil Co.'s Dunks 2, sd 3200 ft. Willow Mound Oil Co.'s Gebhart 1, changing draw works 2200 ft. Garrett Oil Co.'s Townsite 2, dr 2960 ft. Gulf Prod. Co.'s Warren 19, at Hockley, spudded in. Ship Channel Oil Co.'s Atkinson 2, rigged and sd. Giesecke et al's Giesecke 1, dr 2500 ft. Monarch Oil & Ref. Co.'s Hautier-Moyle, located one and one-half miles east of Greens Bayou, 280 ft north of southwest corner lot 24, J. W. Moody survey, 2000 ft south of Houston-Crosby road, dr 750 ft. Texas Southern Pet. Co.'s Riden 1, sd 3270 ft. J. C. Stribling et al's Seaureau 1, at Greens Bayou, dr below 300 ft.

HARDIN COUNTY—Gulf Prod. Co.'s Mayo 1, set casing 3250 ft. Votah Oil Co.'s Swift 1, sd 2120 ft. C. G. Hooks et al's Sternenberg 2, located one and one-half miles northeast of Kountze, dr 650 ft.

HENDERSON COUNTY—Haynes et al's Woods 1, sd for pipe 2675 ft. Jones & Vaughn Oil Corp.'s Martin 1, sd 2980 ft. Pine Grove Oil Co.'s Brown 2, sd for repairs 315 ft. Tidal Oil Co.'s Moore 1, dr 3600 ft. Union Pet. Co.'s Smith & Logan 1, dr 3100 ft.

HIDALGO COUNTY—La Lomita Oil Synd.'s La Lomita Hill 3, dr 1350 ft. Dale L. Smith & Co.'s Fernandez 1, sd 2875 ft.

HOUSTON COUNTY—Porter Oil Co.'s Austin 2, sd 2395 ft. California Oil Co.'s State Eastman 1, repairing rig 1900 ft. La-Tex Oil Co.'s Driskell 1, sd 1420 ft.

JACKSON COUNTY—Jackson County Oil Synd.'s Drushell 2, sd 2600 ft; Fuqua 1, sdtr 2200 ft. J. W. Young's Henley 1, sd 160 ft. Vanderbilt Pet. Co.'s Koop 3, set 6-inch 3200 ft. Star Pet. Co.'s Crabb 1, sd 14 ft.

JEFFERSON COUNTY—Houston Oil Co.'s Pipkin 2, dr below 1200 ft. Ball Ridge Pet. Co.'s Tyrell 1, sd 3140 ft. Seaport Pet. Co.'s Emly 1, dr 4210 ft. Wilson Oil Co.'s Broussard, rigged up and sd.

LAVACA COUNTY—Hillja et al's Hillja 2, sd 1245 ft. Lavaca County Oil Co.'s Laass 1, dr 2100 ft.

LEON COUNTY—D. & P. Synd.'s Heath 1, rigged up. Lang & Brown's Bolder 1, sd 2765 ft.

LIBERTY COUNTY — Whaley-Cove Oil Co.'s Neils 1, sd 1010 ft. Fairchild Pet. Co.'s Peeler 1, dr 3250 ft in gumbo.

LEE COUNTY—Austin Oil & Gas Co.'s LeMaster 1, sd 1300 ft. Frank Butram et al's Hatfield 1, sd for repairs 1175 ft.

MADISON COUNTY — Stone King Stipe's Jones 1, sd 1800 ft. R. S. Ayers & Currie's Herring Estate 1, sd 1665 ft. Hewell et al's Martin 1, sd 1800 ft. Larson & Bloom's McIver 1, sd 700 ft. Midway Oil Co.'s Sea 1, rigging up.

MATAGORDA COUNTY—Cooper Pet. Co.'s Culver 1, sd 3200 ft. Economy Oil Co.'s Taylor 1, sd 3850 ft. Texas Gulf Sulphur Co.'s Big Hill Townsite 1, sd 1450 ft; Big Hill Townsite 2, dr 2410 ft.

McLENNAN COUNTY — Foster Oil Co.'s Schnecker 1, sd 1660 ft. J. J. Kingsbury's Williams 1, sd 440 ft. Mexia Commonwealth Pet. Co.'s Holloway 1, sd 1160 ft. Tudor Oil Co.'s Shelton 1, sd 1950 ft.

MILAM COUNTY—S. A. Gueberson's Posey 1, sd 2400 ft; Posey 2, lcn. Tracy Maysfield Oil & Gas Co.'s Mays 1, sd 180 ft. Sharp Oil Co.'s Delworth 1, sd 1575 ft. Twin City Oil & Dev. Co.'s Bremond 1, sd 3400 ft. Norman Pet. Co.'s Watt 1, sd 1395 ft. Davis et al's Tracy 1, sd 795 ft. United Workers Oil Co.'s Sneed 2, sd 600 ft. Mexia Air Line Synd.'s Reed 1, sd 40 ft. The Lee Oil Co.'s Neuhaus 1, rigged up. The Milanon-Mexia Oil Synd.'s Ashley 1, lcn.

MONTGOMERY COUNTY—Tamina Prod. Co.'s McDermott 1, sd 1225 ft. Wilburton 1, repairing drum 1000 ft. J. B. Hewitt's Folson 1, southwest corner G. W. Madeley lease, L. Y. Folson survey, lcn.

POLK COUNTY—Godley Oil & Gas Co.'s Polk County 2, sd 300 ft. Wattner et al's Falkner 1, sd 2800 ft.

ROBERTSON COUNTY — Kentucky-Texas Oil Co.'s Walker Bros. 1, sd 3355 ft. Texas Central Pet. Co.'s Allen & McCrary 1, sd 3516 ft. Big Mexia Chief's Taylor 1, sd 1730 ft. Franklin Oil Co.'s Boyd 1, dr 4265 ft. Campbell-Logan-Hoover's Halloway 1, sd 3150 ft. Texas Union Oil Co.'s Moorehead 1, dk. Silver Bell Oil & Ref. Co.'s Brown 1, sd 3545 ft. Mud Creek Oil Co.'s Marquez 1, sd 3340 ft.

SABINE COUNTY—John Deering et al's Harris 1, sd 3500 ft.

SAN JACINTO COUNTY — Trinity River Pet. Co.'s Emery 2, sd 800 ft.

TITUS COUNTY—E. Beeler et al's Grogan 1, sd 1445 ft for dr stem. Western Oil Fields Crop.'s Mitchell 1, sd 3500 ft.

VICTORIA COUNTY—Guadalupe Oil Co.'s Weaver 1, waiting on drill stem 3170 ft, are going to sdtr.

WALKER COUNTY—Prison Commission's Prison 2, dr 3360 ft. South Texas Prod. Co.'s Jones 1, sd 2400 ft. Union Oil Synd.'s 1, lcn. Lancaster-Dick et al's Eastham State Farm 1, dr 3110 ft. Currie et al's Ferguson State Farm 1, dr 3100 ft; Vivian 1, dk. Walker Maderson Oil Co.'s 1, re-setting screen 2340 ft; 2, lcn. E. F. Simms Co.'s Thompson Bros.' 1, dr 3425 ft. Green et al's 1, on Anderson survey, dk.

WALLER COUNTY—Hulsey-Fletcher-Bailey Oil Co.'s Baines 1, sd 3275 ft.

WHARTON COUNTY—Hamilton Oil Co.'s Barkley 1, sd 3020 ft.

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San Antonio District Wildcats

ARANSAS COUNTY—Texas Coast Oil Synd.'s Harris 1, dr.

ATASCOSA COUNTY—DeLange, Eiser Tom 1, setting casing 2400 ft; 2, dr 420 ft.

BEXAR COUNTY — Transcontinental Oil Co.'s Strelczyk 1, dr 1360 ft. Ray Oil Co.'s Skrycki 1, preparing to set casing at 1110 ft. Gafney et al's Sodrek 1, dr 400 ft. San Antonio Producer's Poesek 2, lcn.

DUVAL COUNTY—Federal Oil Co.'s Smith-Cockeral 1, dr 2325 ft. National Oil Co.'s Scharlert 4, dr. Mar-Tex Oil Co.'s Ridder 2 and 3, sd; 4, dr 800 ft, (corrected report). Gray Ridge Oil Co.'s Gray 1, bailing. Givens Oil Co.'s Hanojosa 2, lcn. Humble Oil & Ref. Co.'s Singer 3, to dr deeper. Abercombie et al's Benavides 1, sd. Flornoy & Givens' Canales 1, dr.

JIM HOGG COUNTY—Forest-Miracle Oil Co.'s Holbein 1, dr 1455 ft. Las Animas Oil Co.'s Holbein 1, dr 2400 ft. Holden et al's Hinojosa 1, dr 1100 ft. Woods et al's Holbein 1, dr. Miami-Balderal Oil Co.'s 1, dr. Givens Oil Co.'s 1, dr. Revere Oil Co.'s Davenport 1, dr below 2800 ft. Weber Oil Co.'s Los Anamis 2, dr 1990 ft. Elm Oil & Gas Interest's Holbein 1, dr 950 ft. Gulf Standard Oil Co.'s Pipin 1, sd. E. O. & W. Oil Co.'s Holbein 1, spudded in.

KLEBERG COUNTY — Francis Oil Co.'s Flato 1, dk. Caprock Oil Assn's Nolkemper 1, dr.

LIVE OAK COUNTY—Lobo Oil Co.'s Reagan 4, dr. Grubstake Investment Assn's Nichols 2, dr below 1000 ft.

MAVERICK COUNTY — Eagle Pass Oil & Gas Co.'s 1, dr 2780 ft; 4, lcn.

MEDINA COUNTY—Wooly Hill Oil and Gas Co.'s Harrison 1, dr. Taft-Tex Oil Co.'s Degant 1, dr. Mayor Wheless Jose re la Roche 1, dr. C. Groves' Kemp 1, dr. Witherspoon Oil Co.'s Bless 1, spudded in. Charles Slater et al's Hurst 1, dr. The Ina Oil Co.'s Durst 1, dr.

McMULLEN COUNTY — Charles A. Snapp Co.'s Artex 2, bailing. Grubstake Investment Ass'n Stitz 1, dr out old pipe; Jacob 2, setting packer to test for gas. San Balt Pet. Co.'s Martin 1, dr. Pioneer Consolidated Pet. Co.'s Lowe 2, setting casing. Troy-Ballard Oil & Gas Co.'s Byrne 2, dr below 300 ft. Hopkins-East Jacob 3, dr. Circle Y Drilling Co.'s Martin 1, sd.

SAN PATRICIO COUNTY—Aransas Pass Live Oak Ridge Oil Co.'s Sigmund 3, to cement. Rockport Oil & Gas Co.'s 2, dr 250 ft. San Patricio County Oil Dev. Co.'s Hattie 2, sd. White Point Prod. Co.'s Rachal 1, set 8-inch casing 2300 ft; 2, dk. White Point Dev. Co.'s Rachal 1, waiting on rig.

VAL VERDE COUNTY—R. Cook et al's 1, waiting on casing. Del Rio Oil & Gas Co.'s Eagle Pass Hill 1, dr. Havahen Oil Co.'s Weathersbee 1, reported gas showing at 2700 ft; 2, lcn. Reclamation Oil Prod. Synd.'s Moore-Whitehead, preparing to resume dr. Huber Oil Co.'s Harrison 1, dr 1050 ft. Humble Oil & Ref. Co.'s McDonald 1, lcn. Pure Oil Co.'s Stevenson-Murrah 1, lcn. Fensland Oil Co.'s Abb Rose 4, dr. C. Miller et al 1, dr. Wm. Devine et al Whitehead 1, lcn. Heaton & Ady Seller 1, lcn.

WEBB COUNTY—Big Bear Oil Co.'s Garcia 1, dr. Dixie Oil Co.'s Brackenridge 1, dr 430 ft. Kosmos Oil Co.'s Garcia 1, rigging up. Marathon Oil Co.'s Brackenridge 1, sd. McKenzie et al's Coleman 1, sd. Carolina-Texas Oil Co.'s Barnsley 5, lcn. Carnalian Prod. & Ref. Co.'s Garcia 5, rigging up. Hood Hill

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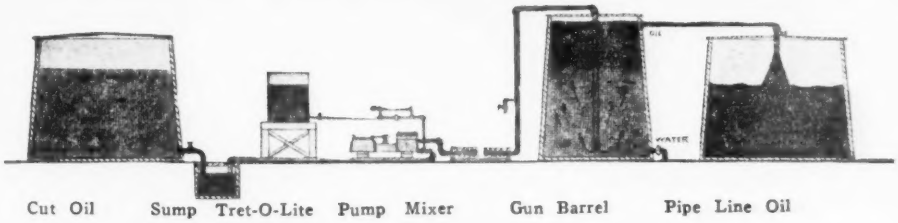

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et al's Ojuelos 1, lcn. B. Ross Jones et al's Barnsley 1, co; 2, sd. A. D. J. Oil Co.'s 1, dr. Burton-Gunn et al's Garcia 1, rigging up. Brennan & Leonard 1, dk. Porcion Oil Co.'s Gonzales 1, dr 1060 ft. Laredo Oil Co.'s Garcia 3, cemented. Leaseholders Oil Co.'s Gates 1, sd; 2, dr 800 ft. South Plains Oil Co.'s Coffield 1, sd; Cushing 1, dr; Brackenridge 4, swabbing; Moon 1, dr 1889 ft; Wormser 1, dr 1995 ft. The Oil Well Drilling Co.'s 1 and 2, rigging up. Magnolia Co.'s Los Ojuelos 1, lcn. South Plains Coursen Matches Co.'s 5, lcn. Sacremento-Rio Grande Prod. Co.'s Hammer 1, sd. Nuevo Oil Co.'s Reiser 1, sd. Olson Oil Co.'s Boyd 3, dk. Olson Oil Co.'s Boyd 3, dk. Mercedes Drilling Synd.'s 1, dr 1490 ft. Seacord Oil Co.'s Dillard 1, sd. Rincon Pet. Co.'s Reiser 1, fsh. Cole Pet. Co.'s Grant 2, skidded dk to new lcn. Mirando Texas Oil Co.'s Garcia 1, fsh. Ross et al's Killam 1, rigging up; 2, sd; 3, dr 300 ft. Mirando Prod. Co.'s Garcia 1, testing 1600 ft. Witherspoon Oil Co.'s Garcia 3, dr 800 ft. Vindicator Oil Co.'s Stateland 2, dk.

ZAPATA COUNTY—Kanoka Oil Co.'s Garcia 2, dr 1548 ft. Community Oil Co.'s Haynes 1, dr 790 ft. Killam-Condren 4, preparing to pump. Ohio Fuel Co.'s Allen 1, lcn. Thiac & Green's Haynes 1, dr. Texas-Mexican Oil Co.'s Garcia 1, cemented 1510 ft.

Kansas Wildcats

McPHERSON COUNTY — Wintworth et al Clark 1, NWc 2-18-1w, dr 2620 ft. Wizzard Oil Co., Wlan 1, SWc NE SW NW 34-18-1w, fsh 1370 ft.

MORRIS COUNTY—A. J. Fisher et al Chase 1, SWc NE 17-7-1e, dr 540 ft.

RENO COUNTY—Silver Creek Oil Co. Fields 1, SEc lot 4, 6-26-7w, fsh 2360 ft.

SEDGWICK COUNTY — United Pet. Co. Jaax 1, NEc SE 20-33-3w, dr 2960 ft.

TINNEY COUNTY—Garden City Oil & Gas Co. Wann 1, SEc SE 35-21-30w, fsh 2600 ft.

WASHINGTON COUNTY — Mitchell Oil & Gas Co. Canfield 1, SWc NW 16-2-1e, dr 520 ft.

Oklahoma Wildcats

COMPLETIONS

Company, Well, Location	Initial Production bbls.	Depth
Hughes County—		
Arkansas Nat. Gas Co. Brown 1 C NE SW NW 34-7-10...	*	3580
Kiowa County—		
W. E. Connor 1 unalotted, NEc NW NW	*	1735

DRILLING REPORT

(Wells shut down, rigs and locations are dropped after being reported one time as such and will not be carried again until activity is resumed.)

BECKHAM COUNTY—Barker Oil Co. Joyce 1, NWc SW NE 22-9-23w, rig. Sutherland et al's Graves 1, SWc NE NW 8-8-26w, running 10-inch casing, td 1200 ft.

CANADIAN COUNTY—Chase Oil & Gas Co. Dawson 1, NEc 34-13-9w, dr 1250 ft.

CUSTER COUNTY—Ralph Day Miller 1, SWc SE SE SE 21-14-17w, dr 1870 ft.

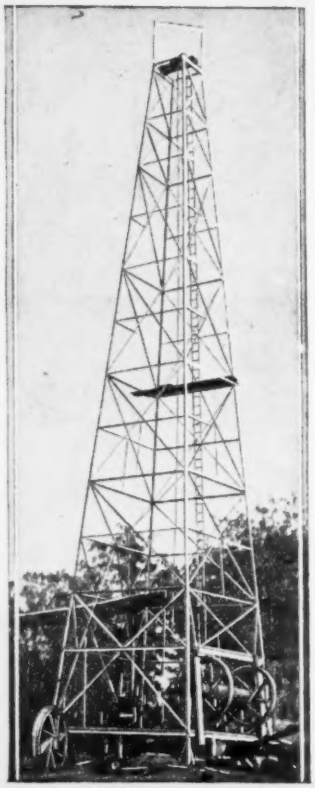
GRADY COUNTY—Gant et al Mertz 1, NWc 31-6-6w, dr 2400 ft. Haywood Drilling Co. Clay 1, SWc NE SW SE 15-5-7w, dr 2120 ft.

GRANT COUNTY — Comar Oil Co. Smalley 1, SEc NW SE 13-25-4w, ur 695 ft. Blackwell O. & G. Co. Martin 2, SWc NW SW 23-27-3w, dr 3275 ft. Lynch & Clements Danford 1, C SE SE SE 35-26-3w, ur 695 ft. National Refining Co. et al Rogers 1, NEc NE NW 15-27-4w, fsh 1610 ft. Western States Oil Co. Swaggart 1 (old well) SWc SE SE 14-21-3w, co 3510 ft; 2 Lane, NEc SE NE NE (old well) 27-27-3w, dr 2830 ft.

HUGHES COUNTY—Gilchrist et al Bruner 1, NWc NE 26-9-9, rig.

JEFFERSON COUNTY—Empire Gas & Fuel Co., Price 1, C NW SW NE 23-3s-7w, dr 2565 ft.

KIOWA COUNTY—Long Beach Oil



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Synd. Allen 1, NWc SE 21-7-17w, fsh 700 ft.

LINCOLN COUNTY—Magnolia Pet. Co. Payne 1, C NE NE 6-17-4, fsh 1225 ft. Mutual Oil Co. Powell 1, SEc NW NW 17-15-3, dr 1560 ft.

LOGAN COUNTY—Mulhall Oil & Gas Co. Wyant 1, NWc NE 9-18-2w, dr 2275 ft.

LOVE COUNTY — Reid Davenport Gray 1, NEc 9-7s-1w, dr 240 ft. Crosby et al Robertson 1, C SW SE 16-8s-2e, dr 2320 ft.

McCURTAIN COUNTY—Bill Worth Oil Co. Harris 1, SEc NW SW 13-9s-25e, dr 1365 ft.

McCLAIN COUNTY—Crossman et al Barnett 1, NWc SE NW 36-7-4w, dr 2195 ft. Mariman et al Wantland 1, C NE 1-5-2w, dr 2000 ft.

MURRAY COUNTY—Corn Huskers Oil Co. Wolfe 1, NWc SW 6-1-2, dr 1810 ft.

OKLAHOMA COUNTY — Engineers Pet. Co. Williams 1, SEc NE 13-14-2, dr 3500 ft.

PONTOTOC COUNTY — Lawrence Bros. Jones 1, NWc 16-4-4, dr 2240 ft. Canadian Pet. Co. Balthrop 1, SEc 16-4-6, fsh 500 ft.

SEMINOLE COUNTY—Cosden Oil & Gas Co. Williams 1, SEc NW 15-10-8, dr 2525 ft. Tidal Osage Oil Co. Henry 1, SEc NW NE 22-9-6, ur 2100 ft. R. N. Smith Foster 1, NWc SW NW 23-8-8, dr 1925 ft.

WASHITA COUNTY—Rita Oil Co. Joyce 1, NEc SW SW 21-11-19w, dr 4225 ft.

Arkansas Wildcats

BRADLEY COUNTY—Southern O. & L. Co.'s Blankenship 1, 20-12-9, set 8-in 1365 ft; Bradley 1, 25-13-10, set 8-in and abn 2002 ft.

CALHOUN COUNTY—Calhoun O. & D. Co.'s Henrsberger 1, 16-11-13, sd 2350 ft. Herman Oil Co.'s Freeman-Smith 2, 27-14-15, dr 2610 ft; Freeman-Smith 3, 31-14-15, dr 920 ft.

CLARK COUNTY—Arkansas Synd.'s Barringer 1, 26-10-20, sd 2750 ft. Casey et al's Sloan 1, 18-8-19, rig. United Pet. Co.'s Langford 1, 28-5-23, sd 1590 ft.

COLUMBIA COUNTY — American Fuel Oil Co.'s Hicks 1, 21-16-22, sd 3100 ft. Brown et al's Robinson 1, 23-18-23, testing 903 ft. Cox et al's Davis 1, 14-18-21, sd 2330 ft. Dexter et al's Davis 1, 12-18-21, sd 2675 ft. Dowdy et al's Fullenwilder-Rhea 1, 12-17-22, dk. Hercules Oil Co.'s Wise 1, 29-18-21, sd 2565 ft. Haskell et al's Brown 1, 10-17-20, sd 3000 ft. Hosey & McDonald's Haire 1, 30-19-18, dr 125 ft. Ohio Oil Co.'s Smith 1, 5-20-19, sd 3333 ft. Russell et al's Flint 1, 3-20-20, dk; Rushton 1, 7-19-19, dr 2285 ft. Sharp & Strough's Brown 1, 28-18-20, to set 8-in 1050 ft. T. S. D. Co.'s Magale 1, 11-17-21, sd 3020 ft.

CRITTENDEN COUNTY—Crittenden County O. & G. Co.'s Stanley 1, 33-8-7, sd 1631 ft, showing gas.

DALLAS COUNTY—Ohio Oil Co.'s Taylor 1, 27-9-17, coring 1585 ft.

DREW COUNTY—Dunn-Marr Pet. Co.'s Hardy 1, 7-13-7, sd 1887 ft. Garrison et al's Oswald 1, 26-13-5, set 6-in 3080 ft. Holland et al's Doern 1, 9-12-4, sd 1000 ft. Stainke et al's Fee 1, 23-13-7, set 6-in 2063 ft.

GRANT COUNTY—Grant County Oil Co.'s Stupka 1, 15-5-12, sd 1210 ft. Jeter & McGee's Cargile 1, 26-5-12, sd 700 ft. Winters et al's Lamb 2, 25-6-15, sw 1876 ft, sd.

HEMPSTEAD COUNTY—Allen Oil Co.'s Henry 1, 30-12-23, fsh 2880 ft. Georgia Oil Co.'s Duckett 1, 28-10-24, sd 965 ft. Georgia-Arkansas Synd.'s Mitchell 1, 16-11-24, sd 1850 ft. Sechrist et al's Duckett 1, 23-23-33, sd 1785 ft. Tycap Oil Co.'s Mason 1, 7-11-25, r 2365 ft.

HOT SPRINGS COUNTY—Marr et al's White 1, 34-4-16, sd 1235 ft.

LA FAYETTE COUNTY—LaFayette O. & G. Co.'s Creek 1, 10-15-24, dk. Ken-Saw Pet. Co.'s Fee 1, 31-19-24, coring 2765 ft.

LITTLE RIVER COUNTY—Sullivan

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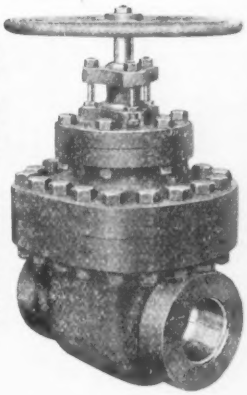

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Oil Co.'s Ludlow 2, 4-11-20, to set 6-in 620 ft.

MILLER COUNTY—Dodwell et al's Miller 1, 29-18-27, sd 900 ft. Farmers O. & G. Co.'s Ramsey 1, 24-17-23, dk. Magnolia Pet. Co.'s Westmoreland 1, 9-19-7, dr 2320 ft. Miller Land Co.'s Miller 1, 18-18-27, dk. Primero Oil Co.'s Bedgood 1, 2-16-18, sd 2200 ft.

NEVADA COUNTY — Goetz et al's Munn 1, 4-14-22, sd 400 ft. Kan-Ark Oil Co.'s Brimberry 1, 21-13-21, r 2175 ft. Murphy & Falke's Williams 1, 3-15-20, dk. Nelson et al's Lester & Haltom 1, dr 1950 ft. Tri-County Oil Co.'s Drake 1, 3-15-20, dr 2325 ft. Watkins et al's Womack 1, 11-14-21, to test at 1191 ft. White et al's Phillips 1, 30-14-20, rig.

OUACHITA COUNTY—Lumbermens Oil Co.'s Crutcher 1, 27-15-18, sd 2300 ft.

Southern Oil Co.'s Patterson 1, 22-12-9, fsh 2895 ft. Springer Oil Synd.'s Hecker 1, 2-14-17, sd 2490 ft. Universal Pet. Co.'s Benton 1, 24-12-19, dr 3540 ft. Walker et al's Hickman 1, 16-14-17, sd 1915 ft. White et al's O'Donnell 1, 31-13-16, lcn.

UNION COUNTY—Humble O. & R. Co.'s Webb 1 (deep test), 6-18-13, showing oil and sw at 2553 ft, will deepen.

Louisiana Wildcats

COMPLETION

Company, well, location	Initial Production bbls.	Depth
Webster Parish—		
Louisiana Oil Ref Corp. Gleason 3, 18-22-9	*	2895

DRILLING REPORT

BIENVILLE PARISH—Davis Synd's Theus 1, 5-17-5, sd 2785 ft. Langston et al's Davis 1, 23-17-5, sd 1485 ft. Smitherman et al's Pentecost 1, 20-18-5, coring 2265 ft; White 2, 29-18-5, dk timbers.

CADDO PARISH — Louisiana-Texas Community Oil Co.'s Hill 1, 33-23-16, setting 6-inch 2824 ft.

BOSSIER PARISH—Atlantic Production Co.'s Johnson 1, 21-22-13, fsh 3660 ft. Clark et al's Connell 1, 35-18-12, lcn. Collins et al's Gray 1, 28-19-13, dr 900 ft. Elliott et al's McLaughlin 1, 10-18-11, sd 500 ft. Flournoy et al's Kirby 1, 36-18-13, sw 2715 ft. Hoencke et al's Freeman 1, 15-18-12, dr 2880 ft. Invincible Oil Co.'s De Moss 1, 20-22-12, set 6-inch 2685 ft. Olmstead et al's Scanlan 1, 10-20-13, dk. Perkins et al's Gayle 1, 33-20-13, rig. Skannal et al's Fee 1, 22-17-12, rig. Standard Oil Co.'s Rawls 1, 15-22-11, set 10-inch 202 ft.

CLAIBORNE PARISH—Adams et al's O'Bannon 1, 25-22-5, rig. Es-To Oil Co.'s Tuggles 1, 31-21-6, sd 2135 ft. Fawn Creek Oil Co.'s Kinder 1, 32-22-7, sd 1493 ft. Fullenwilder et al's Fullenwilder 1, 8-23-6, setting 10-inch 850 ft. Gulf Ref. Co.'s Meadows 1, 20-21-7, set 6-inch 2068 ft. Harrell et al's Brinkley 1, 15-23-4, sd 1650 ft. Haynesville Star Oil Co.'s Crump 1, 9-23-7, sd 3030 ft. Mitchell et al's Cooper 1, 19-23-4, sd 600 ft. Meyer et al's Boatner 1, 20-19-5, dr 1475 ft. O'Neil et al's Prestridge 1, 17-22-7, sd 4100 ft. Opal-May Oil Co.'s Kelly 1, 3-23-4, sd 2161 ft. Steel et al's Wise 1, 15-23-6, sd 2810 ft. Steuben O. & G. Corp.'s Taylor 1, 16-22-6, dk.

EVANGELINE PARISH—Duke et al's Le Danois 2, 34-3-1, fsh 1230 ft.

DE SOTO PARISH—Eads et al's Nolan 1, 15-10-13, dr 3145 ft. Elam Synd.'s Giauque 1, 9-11-11, dk. Fortuna Oil Co.'s Polly 8, 18-12-10, sd 3460 ft. Lee et al's Joiner 1, 28-12-12, dr 3000 ft. Pilgrim Oil Co.'s Ramsey 3, 33-13-16, dr 4045 ft. Simms Oil Co.'s Pelican 1, 8-11-11, dr 3900 ft. Snell et al's Connell 1, 8-12-14, sw 2991 ft.

LINCOLN PARISH — Roxana Pet. Co.'s Thomas 2, 24-18-4, sd 2100 ft. Greer & Gault's Simmons 1, 25-18-1w, dk.

NATCHITOCHES PARISH—Parks et al's Morse 1, 23-5-6, dk; Crowell-Spencer 1, 29-5-6, dk.

RAPIDES PARISH—Bell et al's Barnett 1, 15-5-1W, sd 1348 ft.

SABINE PARISH—Brown et al's Bowman-Hicks 1, 7-7-12, dr 1900 ft; Bowman-Hicks 2, 15-7-12, sd 410 ft; Bowman-Hicks 3, set 10-inch 40 ft. Campbell Oil Co.'s Long-Bell 1, 17-8-13, dk. Gladys-Belle Oil Co.'s Belmont-Raines 1, 33-9-11, dr 2525 ft. Middlesex Oil Co.'s Smith 1, 17-7-10, dr 155 ft. Pathfinder Oil Synd.'s Long-Bell 1, 8-8-13, dr 1225 ft. Zwolle Oil Co.'s Bowman Hicks 2, 15-7-12, set 8-inch 380 ft.

UNION PARISH—Gardner et al's Brown 1, 6-23-3W, dr 2135 ft. Price et al's Rogers 1, 23-23-2, dr 2095 ft. Texas Co.'s Grayland 2, 20-23-2 fsh 2860 ft; Taylor 1, 3-22-2 set 10-inch 2050 ft. Transcontinental Oil Co.'s Carroll 1, 12-20-2, dr 3010 ft.

WEBSTER PARISH—Arkansas Natural Gas Co.'s Louisiana 1, 24-23-10, fsh 3053 ft. Belchic & Laskey's Pinewoods 1, 35-23-10, rig. Burkhalter et al's Burkhalter 1, 29-19-8 sd 2160 ft. Empire Drlg. Co.'s Spencer 1, 5-21-9 sd 3240 ft. Humble Oil & Ref. Co.'s Hicks 1, 10-22-9, dr 2860 ft. Kenney Bros.' Hudson 2, 17-19-10, lcn. LeGuerre Synd.'s Miller 1, 33-19-10, set 6-inch 1145 ft. Lucky Four Oil Co.'s Baldwin 1, 28-18-10, sd 1600 ft; Willis 1, 4-17-10, dr 1150 ft. Midway Oil Co.'s Heflin 1, 24-17-9, lcn. Ohio Oil Co.'s Sexton 1, 31-23-9, dr 1715 ft. Palmer et al's Pinewoods 1, 35-23-10, set 10-inch 250 ft. Raymond et al's Houston 1, 33-23-10, sd 1385 ft. Rosemont Synd.'s Gruner 1, 21-20-8, sd 1675 ft. Seven-Eleven Oil Co.'s Adkins 1, 25-21-11, sd 840 ft. Triangle Drlg. Co.'s Allen 1, 30-22-10, dk. Wadley's Pearce 1, 14-17-9, fsh 1900 ft.

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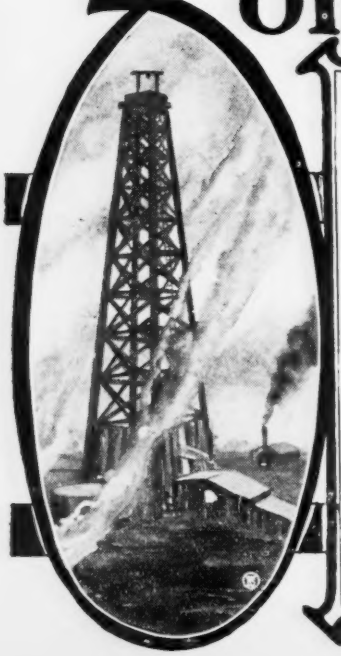

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FT. WORTH SHREVEPORT

Gas of Wildcat Well in Harris County Is Used for Fuel to Drill Offset Well

Houston, Texas, Sept. 20.—The Garrett Petroleum Company operating at Channel City, Harris County, is drilling below 2960 feet in its Townsite 2 and expect to find the pay just below 3200 feet. Townsite 1, which is located about 100 feet south of No. 2, was drilled to the depth of 3240 feet one year ago and made oil for several hours, then went to gas and salt water.

This well is still producing gas which is piped into the boiler and used for fuel on the Townsite 2. Officials of the company believe that the pay in the Townsite 1 was pentrated too deep and the greatest care will be exercised in the drilling in of No. 2.

The Garrett Petroleum Company has 6000 acres leased in the vicinity of these wells and this acreage runs east and west with the Ship Channel and Market Street road.

The west side of this tract extends for two and one-half miles on Green's Bayou and lies about three miles south of the Monarch Oil and Refining Company's location on the Moody survey. The J. C. Stribling well, which is being rigged up, is located around 2300 feet northwest of the Garrett Petroleum Company's holdings. There has been three additional locations made recently in the Green's Bayou territory.

Above is shown the pipe through which the gas flows from the Garrett Petroleum Corporation's Townsite 1 to the boiler for fuel to drill No. 2 in background

North American Oil Co. Absorbs Several Concerns

Oklahoma City, Okla., Sept. 15.—Organization of the North American Oil Company into which is merged the North American Oil and Refining Corporation, the Noco Petroleum Company, and eight other companies, has been announced here by C. F. Colcord, president of the new company.

Officers in addition to Colcord are C. J. Webster, New York, chairman of the board of directors; C. B. McCluskey, New York, secretary and treasurer; D. I. Johnston, Oklahoma City, vice president and general counsel, and J. E. McDonnell, Des Moines, Iowa, vice president.

Directors include the officers and John Maney, R. J. Edwards, and M. H. Warren, all of Oklahoma City, and William Pohlmann of Cedar Rapids, Iowa.

Companies included in the merger in addition to the two named above are the Noco Production Company of Oklahoma City, Puritan Petroleum Company of New York, Noco-Mexican Oil Company of New York, Black Petroleum Corporation of Okmulgee, Oklahoma, Lesh Refining Corporation and Lesh Oil Products Company of Arkansas City, Kansas, Noco Pipe Line Company and Petroleum Transit Company of New York, and others which cannot yet be announced.

Capital stock is 2,000,000 shares of no par value. About half of this will be issued to take up the stock of the merged companies. Book value of the new stock is given as $17.50 a share.

The new company is a Delaware corporation. It will maintain executive offices in New York and operating offices in Oklahoma City. It will operate in every department of the oil industry, producing, refining, transporting and marketing its own products.

It is reported that the new concern has 40,000 acres of leases of which 4500 acres are producing with 125 wells thereon. Producing properties are located in the Okmulgee, Duncan and Cement fields in Oklahoma, Rantoul and Fox-Bush fields in Kansas, Burkburnett, South Bend, Bunger and Herron City fields of Texas, and the El Dorado field in Arkansas.

The companies have three refineries located at Arkansas City, Kansas; Pemeta, Oklahoma; and Rosedale, Kansas; 758 tank cars, a string of filling stations, pipe lines and loading racks in the Burkburnett and Kansas fields and storage tanks at various points.

Indiana Shales Have Large Oil Content; Bureau of Mines Gives Interesting Data

WASHINGTON, D. C., Sept. 15.—The oil shales of the New Albany, Indiana, district, which constitute the principal shale resources of that state, should yield from six to 14 gallons of oil per ton, according to distillation tests made in the course of a co-operative investigation by the University of Indiana and the United States Bureau of Mines. The yield of oil from the New Albany shale is much less than the average yield from the western shales, but the oil obtained will apparently yield a higher percentage of motor fuel than many western shales. Factors favoring the development of the Indiana shale as a source of oil are its homogeneity, the thickness of the deposits, the quantity available, its accessibility, the ease and low cost of quarrying and crushing, and the high content of nitrogen.

The New Albany shale is of Devonian age, and is usually correlated with, although not certainly of the same age as, the Antrim shale of northern Michigan, the Ohio shale of Ohio, and the Chattanooga shale of Kentucky, Tennessee, and Georgia. The normal thickness of the formation in Indiana is about 100 feet. The New Albany shale outcrops principally in the southeastern part of Indiana, between North Vernon and New Albany. The outcrop district, running north and south, is about 50 miles long and from five to ten miles wide, and includes about 500 square miles. The same shale is also found outcropping in the northeastern part of the state, along the banks of the Wabash river and its tributaries in White and Carrol counties, in the vicinity of Monticello, Delphi and Rockfield. The southeastern or principal outcrop district covers parts of Jennings, Jackson, Scott, Jefferson, Clark and Floyd Counties.

In numerous places the shale has been quarried for use in road building. The thickness of the formation, its texture, the topography of the terrain lend themselves admirably to quarrying on a large and inexpensive scale. Streams have cut deeply into the shale in many places, forming bluffs and cliffs from 30 to 70 feet high. The New Albany shale is rather hard and brittle when fresh, and may be crushed readily. The surface of freshly broken pieces has a velvety black

color. Weathering changes the black color to gray.

Distillation tests made by Bureau of Mines standard methods indicate that the oil from the Indiana shale yields a higher percentage of tops than do the oils from the western shales, and that the percentage of unsaturation also is less than that of the tops from the western shale oils. The Indiana shale can hardly be considered a source of paraffin wax. The high viscosity and gravity of the vacuum distillates are noteworthy, as is also the high percentage of carbon residue of the vacuum residuum. The crude oil from the Indiana shale is characterized by high specific gravity and low setting point as compared with oils from Utah and Colorado shales.

The amount and composition of the gas produced from the New Albany shale vary with the rate of retorting and with the final temperature of the shale. Under different retorting conditions the amount of gas obtained varied from 500 to 1800 cubic feet per ton of shale, and its net heating value averaged 750 BTU per cubic foot. The percentage of hydrogen sulphide in the gas is unusually large, analyses indicating that it may run as high as 20 per cent.

Many analyses show that the New Albany shale contains more nitrogen than do the western shales, and the production of ammonium sulphate from the Indiana shales may become an important factor if the shale is used as a commercial source of oil. It is very doubtful if this shale should be considered as a commercial source of potash.

In the progress of the cooperative work on Indiana oil shales, performed by the Bureau of Mines and Indiana University, collection of samples and other data of value regarding the utilization of the shale, accessibility, homogeneity, thickness, origin, water supply, railroads, cost of quarrying and quarrying itself is being carried on. All shale quarries of the state have been mapped. Some sixty samples of shale have been collected which will be tested this fall and winter at the university.

The Bureau of Mines considers that the future of the oil shale industry in this country depends largely on the relative supply and demand for petroleum products, particularly in the Rocky Mountain district. There is a strong probability that in years to come the production of petroleum may so decrease and the demand so increase that oil shales may be largely needed to supply the deficit of crude petroleum as a source of refined products.

The oil shales of this country contain enormous quantities of oil, but large amounts of money will have to be invested before the oil shale industry becomes of commercial importance. Estimates by various engineers of the cost of a complete retorting plant, handling 1000 tons of shale a day are between $1,000,000 and $5,000,000, and if the average shale treated yielded 42 gallons of oil a ton it would probably require at least 1300 such plants operating 365 days a year to supply the volume of crude oil that was consumed in this country in 1920, and the shale mined daily would amount to approximately one-half the coal mined daily in this country. However it is hardly to be expected that shale oil will be called upon to replace petroleum completely, for a great many years. Although the Scotch industry has been existent for more than 50 years, the amount of shale oil produced in Scotland during the calendar year of 1920 was less than two days' average production of crude oil in the United States during the same year.

Detailed information regarding the investigation of the New Albany shales is given in Serial 2390, which may be obtained from the Bureau of Mines, Washington, D. C.

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STATEMENT OF SINCLAIR'S EARNINGS FOR SIX MONTHS

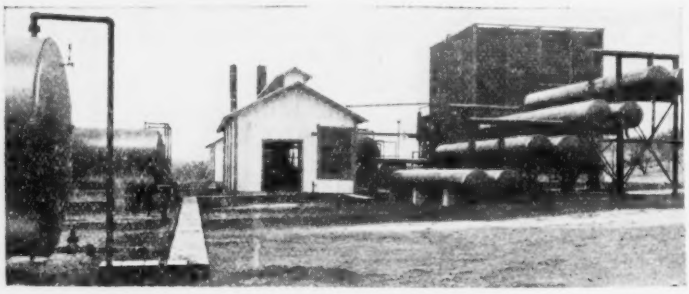
Houston, Texas, Sept. 19.—The Sinclair Consolidated Oil Corporation and subsidiary companies' consolidated statement for the first six months of the year, ended June 30, shows earnings and miscellaneous income exclusive of inter-company sales and revenue, $66,225,483.51; purchase, operating and general expenses, maintenance, insurance, ordinary taxes, etc., $46,756,163.17; net earnings, $19,469,320.34; interest and discount, $2,439,729.30; income available for federal income tax, reserves and surplus, $17,029,591.04.

The report for the first half of this year shows the net earnings to be almost equal to the entire year of 1921. Also shows an earning of $4.18 on each of its 4,067,698 shares of common stock outstanding during the first six months of this year.

Muskogee, Okla., Sept. 16.—The Seaboard Oil & Gas Company has declared a quarterly dividend of 7½ cents a share, payable 2½ cents a share on the thirtieth day of October, November and December, to stock of record the 15th of each month.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.



Absorption Gasoline Plant built by us on lease of the Atlantic Oil Producing Company near Breckenridge, Texas

ECONOMICAL GASOLINE RECOVERY

As pioneers in the absorption process of gasoline recovery, we are employed by leading natural gas and oil interests in all fields to install and equip absorption plants.

We are equally at home in the engineering, construction and equipment of compression plants for gasoline recovery.

We build economical and efficient plants for recovery of gasoline from natural gas, whether rich or lean in gasoline content.

Our activities also embrace:

1. Gas and Oil Pipe Line Construction.
2. Erection and equipment of Oil Pumping and Gas Compression Stations.
3. Equipment of our own manufacture of proven efficiency, including Absorbers, Heat Exchangers, Compressors and Cooling Apparatus.

We go anywhere in the world, and are glad to figure on any consulting or construction engineering work, whether large or small.

HOPE ENGINEERING & SUPPLY CO.

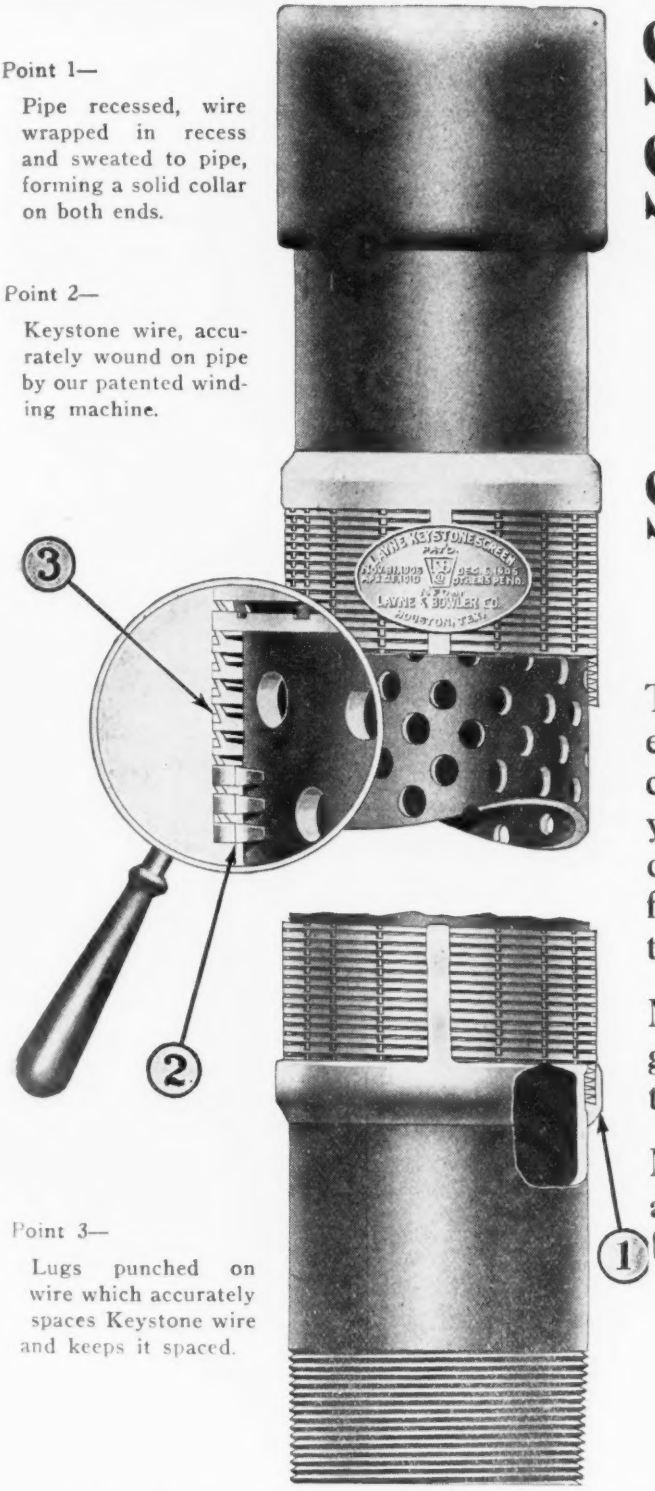
Consulting and Construction Engineers
MT. VERNON, OHIO, U. S. A.
BRANCHES: Tulsa, Okla.—Pittsburgh, Pa.

Point 1—

Pipe recessed, wire wrapped in recess and sweated to pipe, forming a solid collar on both ends.

Point 2—

Keystone wire, accurately wound on pipe by our patented winding machine.



Point 3—

Lugs punched on wire which accurately spaces Keystone wire and keeps it spaced.

Strainer Satisfaction

The Layne Patent Keystone Wire Wrapped

STRAINER

For Oil Wells

This strainer has been used extensively by principal oil companies for the past fifteen years, and is unexcelled for downright satisfaction and freedom from cleaning troubles.

Manufactured in brass or galvanized wire in any gauge to suit any formation.

Made on line and drill pipe and oil well tubing in sizes from 1 1-2 to 8 inches.

Phone Us Your Orders
We make your emergency our emergency

We are equipped to handle export orders

THE LAYNE AND BOWLER COMPANY

Factories:
Houston, Texas **Memphis. Tenn.**

Polish Gov't to Make Large Oil Concession

Approximately 500,000 acres to be divided into 5000 acre tracts and leased to oil companies

WASHINGTON, D. C., Sept. 15.—The Polish Government has at its disposal, according to a statement received from Dr. Stefan Bartoszewicz, Director of the Oil Division of the Ministry of Industry and Commerce, approximately 500,000 acres of oil fields. This area of nearly 800 square miles, the Government has decided to lease out for purposes of exploitation to private companies and individuals.

Divided Into 5,000-Acre Plots

According to the present plans, a plot of approximately 5,000 acres may be sublet to one applicant. The applicant is given the privilege of selecting the location for his activities insofar as the first 5,000 acres are concerned. The State may, at the request of the applicant, set aside an additional area of 5,000 acres, but in this case the choice of the location is left to the State.

The regulations of the Government provide that geological surveys of the area are to be completed within one year from the time of setting aside the specified area. In making this survey the lessees are to divide their 5,000-acre plots into zones. During the second year borings must be begun in at least two of the zones.

State and Drillers to Share

During the third year the number of oil borings must be increased to equal the number of oil zones within the 5,000-acre plots. The division of oil zones between the applicant or driller and the State will also be made during the third year. The division will be made by forming lots of approximately 250 acres each which will then be, insofar as possible, divided equally between the driller and the State.

Within the next two years, that is, during the fourth and fifth years of the agreement, the borings must be continued so that at least one rig is in operation in each of the above mentioned lots. Regulations which have been worked out in considerable detail provide that after borings have reached a specified depth, the lessee may, if he wishes, discontinue operations in the particular zone, but he forfeits the right to renew operations by thus discontinuing drilling. However, after two or more shafts have been sunk in the same zone, the driller may continue on any one or more of such shafts.

Percentage to Government

The Government is to receive a percentage of all oil obtained. Provisionally the Government's percentage has been fixed at ten per cent. of the gross production. Should such production be less than 50 tons monthly, the Government's percentage would remain at 10 per cent. Should the production be between 50 and 100 tons monthly, the Government would obtain 12 per cent. and if over 100 tons monthly, 15 per cent.

The period of the lease is fixed at 25 years, but it may be extended an additional 15 years, in which case the Government's percentage of production is increased from 30 to 50 per cent.

For All Storage Requirements

Maloney Tanks are adaptable for crude, gasoline or water storage and meet every condition—whether for industrial, refining or field use. Tight deck construction.

Accurate, durable and dependable, Maloney Tanks prevent losses from evaporation and offer full value to purchasers. Ask those who use them.

Sizes 60-Bbl. to 2000-Bbl., Inclusive

Ask For Catalog C

MALONEY PATENTED BOLTED COPPER STEEL TANKS

Maloney Tank Manufacturing Co.

Tulsa, U. S. A.

EVAPORATION LOSSES OF LIGHTER PETROLEUM PRODUCTS

Washington, D. C., Sept. 18.—Ludwig Schmidt, junior chemical engineer of the petroleum experiment station of the Bureau of Mines at Bartlesville, Oklahoma, is continuing field and laboratory work on evaporation losses of the lighter products of petroleum. Arrangements have been made to co-operate with refineries at Ponca City, Oklahoma, to determine evaporation losses of certain refined products in their course through the refinery and later in storage. The refineries in general are very much interested in knowing their evaporation losses and finding methods to decrease them.

BUREAU OF MINES GIVING FIRST AID IN OIL FIELDS

Washington, D. C., Sept. 18.—Additional training in first-aid has recently been given by the personnel of United States Bureau of Mines car No. 2 to employes of the oil industry at Wichita Falls, Burkburnett, Corsicana and Ft. Worth, Texas. Large classes in first-aid have been held for employes of oil refineries at Yale, Cushing and Alderson, Oklahoma. The first-aid training has recently been given to employes of the Associated Oil Company at Avon, California, by members of the staff of the Berkeley, California, safety station.

Dallas, Texas, Sept. 18.—The Magnolia Petroleum Company is completing the construction work on two 55,000-barrel steel tanks being added to its huge tank farm at Corsicana near its refinery.

KEY TO ABBREVIATIONS

Following is the explanation of abbreviations and signs used in drilling reports, completions, etc.: *—dry, abandoned well; ‡—salt water; †—junked and abandoned; ¶—million cubic feet of gas; abn—abandoned; bbls—barrels; b. s.—basic sediment; cas—casing; co—cleaning out; dk—derrick; dr—drilling; fsh—fishing; ft—feet; in—inches; lcn—location; m—milling; N. S. E. W.—North, South, East, West; r—reaming; sd—shut down; sdtr—sidetracking; sp—spudded; sr—side reaming; std—standardizing; sw—salt water; td—total depth; ur—under reaming; wo—workover; wosr—waiting on standard rig.

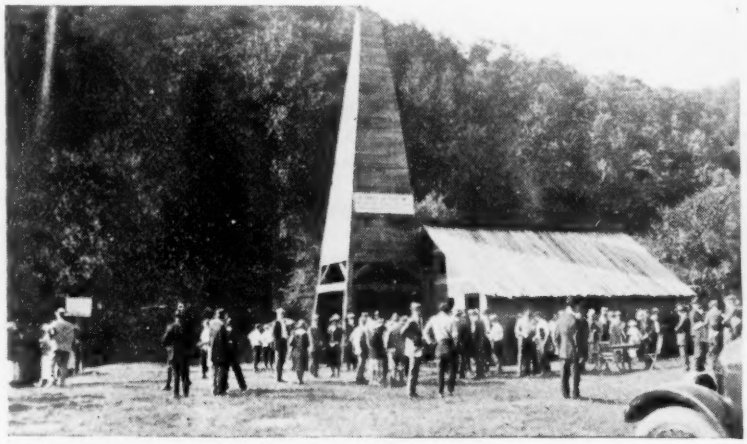
Pioneer Drilling Methods Illustrated Interesting Feature at Drake Memorial

PITTSBURGH, PA., Sept. 19.—The annual celebration of "Drake Day," August 26th, which marked the completion of the first oil well in America in 1859 by Col. Drake, was celebrated near Petroleum Center, Pa., with appropriate ceremonies. The event was made more interesting by the re-enactment of drilling operations by Col. Drake and his crew—using a replica of the original derrick erected for the purpose, while moving picture cameras recorded the action.

Many old timers form all over the country were in attendance; many of them having gotten their start in oil in this same vicinity.

Among these was Harry R. Decker, of Houston, shown in the picture with his foot parked on one of the Drake well derrick floor planks, who spent his boyhood days at Petroleum Center—during which time his father was engaged in barging oil down Oil Creek.

Mr. Decker is now associated with the Titusville Iron Works Company at Titusville, Pa., and is engaged in designing and building what might be termed a "Super-efficient Deep Well Rotary Rig" for which it is expected that it will be able to drill to a depth of 7,000 feet or more in less time than it took Col. Drake to complete the first oil well to a depth of 69 feet with the crude tools he had to work with.



Model of a pioneer well used at the recent Drake Day Memorial to illustrate the methods used on the first oil well

H. R. Decker making an inspection of the model Drake well

MONTHLY SUMMARY FOR 1921 AND FOR JANUARY-JULY, 1922, SUBJECT TO REVISION

	Domestic production of petroleum (petroleum transported from producing properties)		Imports of "mineral crude oil"		Exports of "mineral crude oil"		Stocks*		Estimated consumption of domestic and imported petroleum (deliveries to consumers)		
	Total (thousands of barrels)	Daily average (barrels)	Total (thousands of barrels)	Daily average (barrels)	Total (thousands of barrels)	Daily average (barrels)	Held last day of month (thousands of barrels)	No. days' supply based on daily rate of consumption	Total (thousands of barrels)	Daily average (barrels)	Number of producing oil wells completed during month¶
January, 1921	37,959	1,224,484	13,193	425,577	743	23,979	125,589	78	49,421	1,594,226	1,825
February, 1921 ...	35,366	1,263,071	11,384	406,580	794	28,368	132,222	94	39,323	1,404,393	1,574
March, 1921	40,905	1,319,516	12,303	396,875	750	24,188	139,499	96	45,181	1,457,452	1,452
April, 1921	40,040	1,334,667	10,104	336,797	748	24,922	146,399	103	42,496	1,416,533	1,224
May, 1921	41,985	1,354,355	9,148	295,078	874	28,179	155,267	116	41,391	1,335,194	1,405
June, 1921	40,354	1,345,133	10,255	341,842	586	19,538	162,463	114	42,827	1,427,567	1,471
July, 1921	40,252	1,298,452	8,047	259,575	538	17,365	168,821	126	41,403	1,335,580	1,162
August, 1921	40,984	1,319,161	3,352	108,136	885	28,542	169,682	124	42,500	1,370,968	952
September, 1921 ..	36,508	1,216,933	9,139	304,615	881	29,352	172,874	125	41,574	1,385,800	788
October, 1921	35,539	1,146,420	11,635	375,336	747	24,085	174,149	120	45,152	1,456,516	752
November, 1921 ..	37,880	1,262,667	12,994	433,125	869	28,967	178,260	117	45,894	1,529,800	899
December, 1921 ...	41,957	1,353,452	13,753	443,654	525	16,949	185,623	120	47,819	1,542,548	1,108
January, 1922	43,141	1,391,645	13,097	422,474	727	23,440	196,228	136	44,906	1,448,581	1,151
February, 1922	40,814	1,457,642	12,077	431,337	659	23,532	208,851	148	39,609	1,414,607	1,143
March, 1922	46,634	1,504,323	14,004	451,742	806	26,004	221,588	146	47,095	1,519,194	1,323
April, 1922	44,635	1,487,833	11,659	388,646	923	30,784	235,962	173	40,997	1,366,567	1,442
May, 1922	46,456	1,498,580	14,018	452,186	772	24,882	¶¶247,093	¶¶158	¶¶48,571	¶¶1,566,806	1,511
**June, 1922	45,559	1,518,633	12,182	406,062	825	27,516	255,817	159	48,192	1,606,400	1,654
July, 1922	46,593	1,503,000	‡§11,308	364,773	‡†853	27,516	261,478	158	51,387	1,657,645	1,798

*Net pipe line and tank farm stocks east of California and gross pipe line, tank farm and producers' stocks in California, plus stocks of Mexican petroleum held in the United States by importers. **Revised. ¶From Oil City Derrick and Standard Oil Bulletin. ¶¶Revision based on correction submitted by one company. ‡Official figures for July not available. §American Petroleum Institute Bull. Aug. 10, 1922. †Calculated from daily average for June.

Addition to Magnolia Line Nearing Completion

Dallas, Texas, Sept. 18.—Delay in getting deliveries on steel line pipe has held up the Magnolia Petroleum Company in completing the 132 miles of 8-inch loop lines on its main trunk line system leading from the Mid-Continent fields to the company's refinery and tank farm at Beaumont, Texas. This project was begun last June, and when completed will increase the potential carrying capacity of its trunk line system from about 53,000 barrels daily to 60,000 barrels. The expenditure and amount of work involved in stringing the loops, which are being made at intervals between Alvord, Texas, and Beaumont, represents the largest pipe line job carried on in the state this summer.

The longest single stretch of loop lines amounts to 24 miles, and leads south from Alvord. Recent reports on the progress being made on the loops show that the work has been completed as far south as Cleveland pump station, and only a short distance remains to be finished. Ditching machines are following close on the heels of the workmen stringing the line, and it is expected that all pipe will be buried before the end of the month.

VERA CRUZ WELL BELONGS TO AGUILA, NOT MEXICAN PETE

Tampico, Mex., Sept. 19.—The Aguila's Concepcion 22, Minatitlan, on Southern Vera Cruz, which was erroneously reported in last week's OIL WEEKLY as the Mexican Petroleum Company's well, is good for 5000 barrels a day, but is being pinched in to 3500 barrels.

Petroleum and Its Products

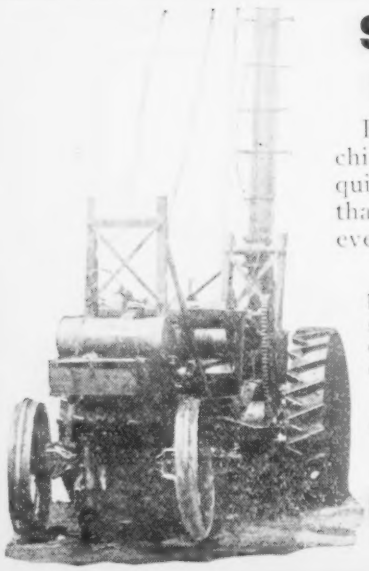
High-Grade—Uniform Quality

Gasoline, Kerosene, Fuel Oil, Naphtha, Distillates

Sunshine State Oil & Refining Co.

(Incorporated)

Offices, 1019-1025 American National Bank Bldg. Wichita Falls, Texas



Saves Time and Money

Here is a cleaning out machine that will do the work quicker and more economically than any machine you have ever seen.

It is built in five models, can be successfully used either with standard pulling rigs, or with direct line over top of derrick, or with its own mast.

Handles wells down to 4,000 feet.

Write for further details.

Clark Machine Co.

Wichita Falls, Texas

Water Conditions Being Investigated at Mexia

Washington, D. C., Sept. 18.—The work so far performed by the Bureau of Mines in its investigations of water conditions in the Mexia oil fields in Texas has shown that the encroachment of edge water has progressed further up the dip on the lowest pay sand than it has on the two or more upper pays. It has been shown that water analyses can be used to advantage for determining source. The lower or highly mineralized water is practically proven to be largely from an edge rather than a bottom source. There is probably no intermediate water in the area. The probable proportion of top and edge water in the production of the area is as yet indeterminate, but it is certain that there is considerable top water, some of which may be of indirect origin. Some of the idle or abandoned wells are most likely allowing water to enter the oil sands. It has been recommended that accurate figures for production of oil, water and emulsion by individual wells be obtained and also temperature readings, fluid levels and water analyses for the wells making the most water. In some cases it was already quite clear as to whether a retest of shut-off should be made or the well plugged in bottom. Advice has been given against the swabbing of wells and against the methods of abandonment practiced in the region.

BUREAU OF MINES MAKING SURVEY OF COASTAL CRUDES

Washington, D. C., Sept. 18.—Laboratory work on a survey of Gulf Coast crude oils has practically been completed at the experiment station of the Bureau of Mines at Pittsburgh, Pennsylvania. It has been found that the Gulf Coast crudes are entirely different from those in the fields covered by previously made surveys, and it has taken considerable more study to interpret the result.

New York, N. Y., Sept. 18.—The New York Central lines will substitute fuel oil for coal for firing the company's boilers at its big electric power plant at Yonkers. Installation of the oil equipment is to begin at once according to an announcement made by the company.

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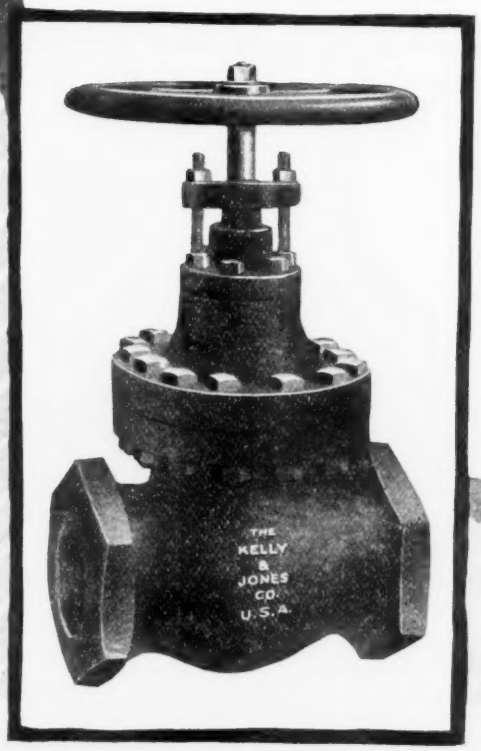
KELLY & JONES EXTRA HEAVY HYDRAULIC STRAIGHT-WAY-VALVES

KELLY and JONES Extra Heavy Straight Way Valves for high pressure service employ brass stems and hard metal seat rings. The disc is semi-steel faced with hard metal.

All valves are carefully tested to 2000 pounds Hydraulic Pressure per square inch before shipment and are guaranteed to give long, dependable service under all conditions.



It will pay you to standardize on the K. and J. line of Valves and Fittings.

Write for Our New Catalogue "S"

The Kelly & Jones Co.
Greensburg, Pa.

NEW YORK PITTSBURG CHICAGO
ST LOUIS CINCINNATI SAN FRANCISCO

LOUISIANA PRODUCTION REPORT, SECOND QUARTER

(Continued from Page 11)

Name of Company, Address	Parish	Value of Oil Prod.
Gregory, Clay, Box 441 Haynesville	Claiborne	1,284
Grant, Walter H., Ardmore, Okla.	Caddo	15,042
Humble Oil & Ref. Co., Houston, Texas	Bossier	12,698
Hodges Oil Company	Bossier	22,474
Higgins Oil & Fuel Co., Houston, Texas	Caddo	705
Haggerty, Robt. A., Oil City, La.	Caddo	987
Houston Ice & Brewing Co., Houston, Tex.	Caddo	2,367
Hamlen, C. P.	Caddo	35
Hoosier Oil & Gas Co., of Ind., Shreveport	Caddo	769
Hennepin Prod. Co., 1645 Minneapolis Ave., Minneapolis, Minn.	Caddo	518
Houston Caddo Oil Co.	Caddo	9,851
Haden, W. D.	Calcasieu	92,514
Houston Oil Co., of Texas, Houston, Tex.	Claiborne	14,581
Humble Oil & Ref. Co., Houston, Tex.	Claiborne	662
Hughes Oil Company	De Soto	5,024
Humble Oil & Ref. Co., Houston, Tex.	De Soto	5,894
Humble Oil & Ref. Co., Houston, Tex.	St. Martin	961
Hope Heading Company	Webster	421
Hanby, W. F., et al	Bossier	18,486
Henderson, F. C., Nowata, Okla.	Claiborne	2,302
Hanson & Mabry	Claiborne	4,352
Hunter, S. D., Trustee, Commercial Nat'l Bank Bldg., Shreveport	Morehouse	5,623
Imperial Oil & Gas Company	Ouachita	3,001
International Oil & Gas Co., Commercial Nat'l Bank Bldg, Shreveport	Caddo	6,122
Johnson, G. M.	Bossier	1,010
Keen & Wolf Co., Houston, Tex.	De Soto	1,749
Kansas & Gulf Co., Chicago, Ill.	De Soto	1,719
Keen & Wolf Co., Shreveport	Red River	2,080
Keen & Wolf Oil Co., Shreveport	Claiborne	78,701
King, E. L., Homer	Claiborne	3,009
Kroninberg, N. W., 513½ Market St., Shreveport	Claiborne	1,232
Keen & Wolf Oil Co., Shreveport	Claiborne	3,096
Kroninberg, N. W.,	Caddo	132
Louisiana Gas & Fuel Company	Bossier	23,882
Louisiana Oil & Ref. Corp.	Bossier	29,320
Louisiana, Arkansas Oil Co., Texarkana, Arkansas	Caddo	786
Louisiana Oil & Ref. Corp., Shreveport	Caddo	32,836
Louisiana Oil & Ref. Corp., Shreveport	Caddo	2,153
Lakantysas Oil Co., 105 West Monroe St., Chicago, Ill.	Caddo	2,557
Levert Oil & Gas Co.	Claiborne	73,656
Leguerre, Edward, Haynesville	Claiborne	871
Louisiana Oil & Ref. Corp., Shreveport	Claiborne	1,055,136
Limus Oil Company	DeSoto	5,171
Lakantysas Oil Co., Chicago, Ill.	Red River	10,901
Lanier & Thomas, 505 Merchants Bldg., Shreveport	DeSoto	1,119
Leguerre, Edward, Haynesville	Claiborne	7,842
Levert Oil Corp., 707 Louisiana Bldg., New Orleans	Claiborne	15,307
Lowenberg Stineau Co.	Claiborne	11,249
La-Lee Oil & Gas Co., Garrett, Pa.	Caddo	1,678
LaRobadiere, J. A., 211 Wall St., Shreveport	Caddo	687
Louisiana Oil & Ref. Corp., Shreveport	Red River	6,982
Magna Oil & Ref. Co., Tulsa, Okla.	Red River	5,772
Moorefield & Tanner and La Oil & Ref. Corp., Shreveport	Claiborne	22,845
Moorefield & Tanner, Mooringsport	Claiborne	9,000
May Oil Company, Shreveport	Caddo	2,785
Meyer, Leo E. Zielinski	Caddo	980
McKenzie, Kelly Hunt lease, Homer Nat. Bank, Homer	Claiborne	55,062
Miller, P. M. & Bro.	Claiborne	778
Mansfield Gas Company	De Soto	3,378
Marin & Cissnor	Terrebonne	555
Morrison & Robichaux	Terrebonne	1,864
Meshell, E. E.	Sabine	400
McHugh, M. W.	Iberia	1,611
Mestayer, F. J.	Iberia	140
Montagnet, O.	Claiborne	9,769
Muslow Oil Co., Box 202, Shreveport	Caddo	6,958
Molbert Pierre	St. Martin	701
Naborton Gas Company	DeSoto	419
Natural Ref. Co. and N. J. Parker, 811 Nat. Bldg., Cleveland, O.	Claiborne	36,493
Natural Refining Co., & N. J. Parker	Claiborne	35,144
Ohio Fuel Oil Company	Claiborne	6,607
Oneida Oil Co., 310 Arcade, Utica, N. Y.	Caddo	613
Ohio Gulf Petroleum Company	De Soto	669
Overcash, J. A.	Bossier	200
Owen & Wood	Claiborne	7,990
Ohio Oil Company, Columbus, Ohio	Claiborne	2,660,099
Ogden, O. O., 707 La. Bldg., New Orleans	Claiborne	9,769
Old Farmers Oil Co., 1018 Merchants Bank Bldg., Shreveport	Caddo	38,208
Ohio Gulf Petroleum Co.	Caddo	594
Ohio Gulf Petroleum Co.	Caddo	291
Palatax Oil Company, 225 Commercial Bk. Bldg., Shreveport, La.	Red River	2,210
Paggi Bros. Oil Co., Weiss Bldg., Beaumont, Texas	Red River	1,362
Palmer, J. F. et al, 1100 Merchants Bank Bldg., Shreveport		898
Palmer Trust Company	Claiborne	152,003
Phillips Petroleum Co.	Claiborne	27,978
Portland Syndicate	Webster	38,041
Payne & Hart, Shreveport	Caddo	2,788
Penrod, Mrs. Alice, Vivian, La.	Caddo	170
Radio Oil Co., Shreveport, La.	Caddo	11,644
Richardson Oil Co., 510 Commercial Bank	Caddo	4,472
Reynolds Oil & Gas Co., Shreveport, La.	Caddo	2,418
Robinson Fair, Mansfield, La.	DeSoto	1,863
Robinson Fair, Mansfield, La.	DeSoto	2,482
Raymond, S. S. Gas Company	Webster	8,507
Risinger, M.	DeSoto	954
Rowe Oil Corp., 1504 Commerce, Dallas, Texas	Claiborne	23,004
Richardson, D. C.	Claiborne	53,737
Roxana Petroleum Co., St. Louis, Mo.	Claiborne	273,760
Roy, R. O., Box 125, Shreveport, La.		7,006
Standard Oil Co., Shreveport, La.		27,881
Standard Oil Co., Shreveport, La.		64,680
Standard Oil Co., Shreveport, La.	Caddo	4,720
Standard Oil Co., Shreveport, La.	Caddo	317,176
Standard Oil Co., Shreveport, La.	DeSoto	3,934
Standard Oil Co., Shreveport, La.	DeSoto	186
Standard Oil Co., Shreveport, La.	Red River	23,352
Standard Oil Co., Shreveport, La.	Sabine	883
Standard Oil Co., Shreveport, La.	Claiborne	1,198,344
Standard Oil Co., Shreveport, La.	Claiborne	7,794
Southwestern Gas & Electric, Shreveport, La.		6,485
Sun Company, Beaumont, Texas	Caddo	10,258
Southwestern Gas & Electric	Caddo	18,165
Satelitte Oil, 1602 Tchoupitoulas, New Orleans, La.,	Caddo	981
SeSath & Lagrange	Calcasieu	1,485
Siess, L., Oil Syndicate, Vinton, La.	Calcasieu	17,707
Smitherman & McDonald,	Claiborne	422,539
Sun Company	Red River	1,763
Shaffer, C. B., 1024 Fort Dearborn, Chicago, Ill.	Red River	32,384
Strange, W. G.	Red River	1,087
Spiller, E. B.	Iberia	1,632
Smitherman, J. E.	Claiborne	498,997
Simms Oil Company	Claiborne	151,069
Sinclair Oil Co., Shreveport, La.	Claiborne	59,034
Shreveport Prod. & Ref. Co.,	Claiborne	21,703
Scott & Gascon, Shreveport, La.	Claiborne	1,287
Schroeder Drilling Co., 226 Sinclair Bldg., Shreveport, La.	Claiborne	6,116
Savoy Oil of La., First Nat. Bank of Tulsa, Okla.,	Caddo	2,815
Strange, W. G., 617 Edwards St., Shreveport, La.,	Caddo	23,839
Smith, E. K.	Caddo	10,913
Seybert Bros. & Myer, Mooringsport, La.	Caddo	2,792
Scientific Oil Corp.	Caddo	6,478
Sunflower Oil Co., Shreveport, La.	Caddo	3,655
Seybert, T. L.	Caddo	442
Strange, W. G.	Caddo	334
Sakaba Oil Corp., Inc., 211 Commercial Bank Bldg.	Caddo	169
Sinclair Oil Co.	Red River	17,130
The Texas Company, Houston, Texas	Acadia	5,920
The Texas Company, Houston, Texas	Caddo	252,655
The Texas Company, Houston, Texas	DeSoto	143,179
The Texas Company, Houston, Texas	Red River	52,201
The Texas Company, Houston, Texas	Red River	153
The Texas Company, Houston, Texas	Sabine	2,367
The Texas Company, Houston, Texas	Sabine	28
The Texas Company, Houston, Texas		7,354

(Continued on Page 82)

Sentinels on Guard

In our research and development department 101 men are at work safeguarding the quality of "Standard" products and seeking ways of making them better.

STANDARD OIL COMPANY
(New Jersey)

STANDARD OIL COMPANY
N J

NEW EQUIPMENT, CATALOGS, BULLETINS, BOOKS

All-steel Wichita pumping jack in use on the Lewis Oil Corporation's Daniels farm in Southeast Burkburnett field (Texas).

Wichita Falls Concern Making New Pump Jack

Wichita Falls, Texas, August 21.—A new pumping jack which is being manufactured in this city and rapidly growing in popularity with oil operators is claimed by its manufacturers to reduce very materially power costs and to practically eliminate the ever occurring worries of shakle rods breaking. The major features of this jack are its all steel construction and use of counterbalance weight on the end of the walking beam, thereby insuring less lost motion and an even stroke. The counterbalance weight reduces the pull for the central power plant, which makes it possible to use small engines or to place additional wells on the same power.

The vibration to be contended with in a steel jack is eliminated by a wood filler in the walking beam. The connecting parts of the jack are riveted in place, relieving all danger of connections working loose. Another feature of the jack is that it does not pound the fluid, but performs with a smooth and even stroke similar to that obtained when pumping on the beam.

One of the first tests made with the jack was on the Lewis Oil Corporation's Daniels lease in the Southeast Burkburnett field, where an overloaded power was causing no small amount of trouble. The use of two of these jacks gave instant relief, and saved the expense of buying a larger engine. The Griswold Oil Company is equipping all of its new completions in the Electra field with this new jack, while the Gulf Production Company has placed an order for some to be given a trial. Other major companies are showing a keen interest in its performances.

The jack is marketed under the trade name of the "Wichita Pumping Jack," and is being manufactured by the Wichita Falls Manufacturing Company, Inc., which is composed of local parties. Offices are at 202 City National Bank building.

Holt Manufacturing Co. Makes New Drilling Engine Using Caterpillar Motor

PEORIA, ILL., Sept. 15.—The Holt Manufacturing Company, manufacturers of Caterpillar Tractors, has recently put on the market a new drilling engine for oil well drilling, which is being received with much interest.

The Holt Drilling Unit consists of a 75 horsepower "caterpillar" motor, mounted on a base which also carries the main transmission shaft with forward and reverse pulleys. From the clutch pulleys the power is carried through belts to a countershaft from which the forward or reverse drive for drilling operations is taken.

The new motor can be either equipped for using natural gas or distillate for fuel. A distant throttle control and distant clutch lever are provided, the throttle being the same type of wheel that is used for steam power control.

The base on which the motor and clutches are mounted is 3 feet wide, 12 feet long, and made of 10 inch channel. The motor supports and pillow blocks are welded to the main frame, with the exception of the rear pillow block, which is bolted in place, this being done so as to permit of the assembling and dissembling of the crank shaft extension, on which the pulleys and clutches are mounted.

The main transmission shaft is a nickel steel shaft 6 feet 7 inches long by 3½ inches at its largest diameter. It is connected to the motor by a flexible coupling. On this shaft are mounted the forward and reverse pulleys, together with the clutches for putting same in operation. This shaft, with the pulleys, is carried by six large Bower roller bearings, one at the end nearest the engine, two in each pulley and one at the outer end. The outside diameter of each of these bearings is 6-11/16 inches. These bearings are pressed on and spaced with steel sleeves.

The pulleys are made of cast steel, the forward main pulley being 20 inches in diameter by 14 inches face, 25 inches diameter over flanges; the reverse, 20 inches in diameter, 12½ inches face, and 25 inches diameter over flanges. The pulleys run free on the bearings and are kept in place at each end by spacers made from seamless drawn tubing. The clutch hubs are pressed on with about twenty tons pressure and keyed to the transmission shaft. To these hubs are atttached the clutch arms and toggles, the action of which contracts the bands. The shifting cone which is keyed to the shaft, can be moved to the right or the left along the shaft to give forward or reverse action.

The clutches are demountable and can

(Continued on Page 84.)

The above shows four of the six 55's of the Swiftsure Petroleum Company, Houston, Texas, at its terminal at Texas City. This company's terminal has a total storage capacity of 425,000 barrels.

Axelson

Sucker Rods

keep the oil coming fast

Your troubles of rod breakage cease when you lower AXELSON RODS into your well. We build into these RODS strength that defies abusive service. They are made of special analysis steel; are of full upset construction; tapered threads are provided to insure a tight grip and the threads are in perfect alignment with the ROD.

AXELSON RODS have the greatest strength where most rods are weakest.

Get the facts now—ask Frick-Reid, our field representatives, or write us.

Axelson Machine Co.

General Offices and Western Factory:
LOS ANGELES

Eastern Sucker Rod Factory,
ST LOUIS

Tulsa Office: 520 Kennedy Bldg.

THERE IS NO ECONOMICAL SUBSTITUTE FOR QUALITY

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LOUISIANA PRODUCTION REPORT, SECOND QUARTER

(Continued from Page 78.)

Name of Company, Address	Parish	Value of Oil Prod.
The Texas Company, Houston, Texas		26,595
The Texas Company, Houston, Texas	Claiborne	149,060
The Public Oil & Refining Co., Inc.	Caddo	6,471
The Western Oil Fields Corp.	Caddo	44,384
Tarver Oil Co., Weiss Bldg., Beaumont, Texas	Caddo	13,814
Tarver Oil Company	Red River	1,392
Tarver & Murphy, Merchants Bldg., Shreveport, care A. F. Turner	Claiborne	46,550
The Pure Oil Company	DeSoto	5,415
Texas Ranger Oil Co.	Red River	2,210
Terrebonne Gas Co.	Terrebonne	815
Thibodeaux, W. E.	Terrebonne	1,557
Tranc. Oil Co., 223 4th Ave., Pittsburgh, Pa.	Claiborne	54,160
Tarver, A. H., Shreveport, La.	Claiborne	6,860
The Shemen Oil & Gas Co.	Caddo	3,991
Tucker, Jno. H., Trustee, Shreveport, La.	Caddo	883
United States Drilling Corp., 606 Market St., Shreveport, La.	Caddo	403
United States Drilling	DeSoto	2,005
United Oil & Natural Gas, 1518 Munsey Bldg. Baltimore, Md.	Morehouse	16,797
United Oil & Natural Products Co.		11,225
United States Petroleum Corp., 4649 South Ashland Ave., Chicago, Ill.	Caddo	1,084
Vinton Petroleum Co., Orange, Texas	Calcasieu	180,215
Voorhies, Lucien	Iberia	341
Voorhies, Bonnin	Iberia	568
Van Cleve, J. F., 1155 Kings Highway, Shreveport, La.	Caddo	132
Weaver Bros. & Looney		4,744
Ward, E. T., Oil City, La.	Caddo	880
Wison Broach Co., Beaumont, Texas	DeSoto	5,202
West Virginia Oil & Gas Co.		5,718
Weeks & Weeks	Iberia	2,852
Weavers & Rivers		5,968
Wonderfield Oil Corp., Homer, La.	Claiborne	3,009
Wideman, Harmon & Chaddick, Box 7, Homer, La.	Claiborne	35,593
White Oil Corp., 66 Broadway, N. Y.	Claiborne	212,067
Woodley Drilling Co., Shreveport, La.	Caddo	1,785
Woodley, E. L., Shreveport, La.	Caddo	1,734
White Oil Corp., 66 Broadway, N. Y.	Caddo	8,401
Webster Production Co.	Webster	6,195
Wall, Donald F.	Caddo	384
Zeigan, Sherman et al	Claiborne	114,461

Macedonia Concession Goes to Anglo-Persian

According to the Oil News (London) the king of Greece on August 12 signed a concession granting the exclusive right to drill for oil over the whole of Macedonia to the Anglo Persian Oil Company.

In view of the recent activity of the Turk it appears that this act on the part of the king was a diplomatic move. Now the British may be called upon to defend their new oil lands from a Turkish invasion, thus helping the Greeks out of a most difficult position.

New York, N. Y., Sept. 15.—The Turman Oil Company has declared its regular monthly dividend of 1 per cent, payable October 20 to stock of record September 30. An extra dividend of 2 per cent for the current quarter was also announced and will be payable at the same date.

The annual meeting of the stockholders will be held on October 10, at the company's offices at 347 Madison Ave., New York.

NEW REFINING COMPANY HAS BEEN ORGANIZED

Kansas City, Mo., Sept. 15. — The Richardson Refining Company has been organized here with general headquarters in the Rialto Building, according to W. D. Richardson, president of the new company. Other officers are "Bill" Douglas, secretary and P. J. Lehnhart, treasurer.

The new concern has taken over the refinery of the Fidelity Oil & Refining Company at El Dorado, Kansas and has put the plant into operation.

Belt Values vs. Long Discounts

Don't judge belts by the price tag; the longest discount doesn't insure the lowest belt cost. You pay for the cheap belt twice over; directly when you are billed for it, and indirectly in a power loss through slippage—in a time loss when stretch must be taken out—and finally in shortened life.

COMMANDER is first and last a quality belt—the kind you can put on the pulleys and forget. It has the stamina for heavy loads and sudden impacts; the flexibility for high speeds and small pulleys; a tractive surface which eliminates slippage. It stretches but little, is water proof and long lived. Not high in first price, COMMANDER is a real belt value.

Let us prove our claims. Put COMMANDER on that drive which demands the utmost in belt endurance. It is through efficient performance in such tests that COMMANDER has made so many friends.

THE B. F. GOODRICH RUBBER COMPANY
Akron, Ohio

Goodrich
Commander
TRANSMISSION BELTS
"Best in the Long Run"

Extra Heavy Fittings At Fair Prices

—Heater Heads
—Pipe Saddles and Clamps
—Pipe Line Strainers
—Flanges
—Tees and Ells
—Beckwith Swing Check Valves
—River Clamps

made extra heavy for any pressures, and embodying the same skilled workmanship that has made GASO PUMPS so popular that more than 6000 oil men have specified them. Details and prices on request.

ASK FOR OUR 64-PAGE CATALOG

GASO PUMP & BURNER MFG. CO., Tulsa, Okla.

GASO PUMPS

for oil field uses

HOLT MANUFACTURING CO. MAKES NEW DRILLING ENGINE

(Continued from Page 80.)

be removed from the pulleys if necessary. The clutch for the forward pulley is 18 inches diameter, 8 inches face. The clutch band is lined with two 8 inch linings, with a space in the center, for the purpose of permitting ventilating perforations through the clutch band, which are ½ inch by 3 inches.

The pulleys and clutches are so designed that a draft of air is forced through, this for the purpose of radiating any heat that might be generated.

The reverse clutch is the same as the forward main clutch, except it is 6 inches face with 4 inches solid lining.

New Steam Generator For Oil Field Use

Wellsville, N. Y., Sept. 15.—The Standard Turbine Corporation announces a new steam generating set built in capacities of 400 watts up to 15 K. W. which is specially adapted to drilling and pumping rigs in the oil fields. The new generator is unusually light and no foundation is required for placing the machine. The manufacturers claim that it will operate on steam pressures down to 50 pounds per square inch.

The turbine casing is made from close grain cast iron and has inserted bronze nozzles. The wheel is made from steel forging into which are set the milled bronze or cupro nickel blades.

The turbine proper is supported on a heavy pedestal extending from the exhaust end in which the bearings are located. The governor consists of two steel weights laid in knife edges of ample proportions to eliminate wear, the action of which is resisted by a compression spring. The governor is carefully balanced and can readily be adjusted for any speed within a given per cent of the normal running speed.

The steam valve is made of phosphor bronze to have the highest resistence against erosive action which might be caused by wire drawing and is of the balanced type.

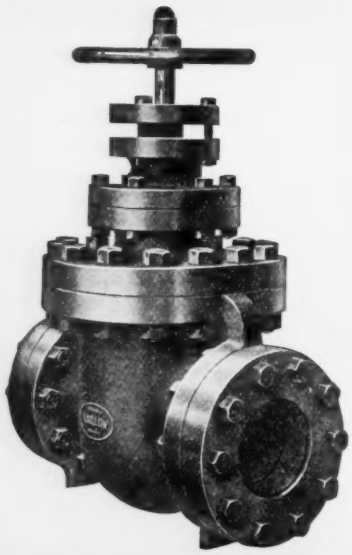
The generator is compound wound and made for 32 volts, 110 volts and 220 volts, and is furnished with rheostat which will permit of variations in the voltage if required.

Steamship "Swiftsure," one of the Swiftsure Petroleum Company's fleet of seven, used to import Mexican crude from Tampico to the Texas City terminal, Texas City, Texas

SWAN UNDERREAMERS

AT YOUR SUPPLY STORE

Made By BRIDGEPORT WICHITA



A Valve for Every Need

In addition to making all standard valves, we have many special patterns for the famous LUDLOW DOUBLE GATE VALVES.

No matter what your valve requirements are, we can take care of you. Forty-two years devoted to the manufacture of high grade valves is your guarantee of satisfactory results when you order LUDLOW VALVES.

Write for catalog or for prices and complete valve information.

THE LUDLOW VALVE MFG. COMPANY

(Established 1879)

Branch Offices:
Kansas City, Mo.; Chicago, Ill.; Pittsburgh, Pa.; Boston, Mass.

Factory:
Troy, New York

IMPROVEMENT ON FISH TAIL BIT IS MADE

A new fish tail bit that will not unscrew in the hole has been developed by G. F. LeBus of the LeBus Machine Shop, Electra, Texas.

The feature of the bit which makes it impossible to lose it in the hole is a clutch tooled from the top of the bit, which, when the bit is screwed to the collar engages and remains engaged until the bit is withdrawn from the hole. A "crank," a small affair, is inserted through the water holes in the bit, and unlocks the clutch.

The bit is made of the usual bit steel and sells for the same price as the ordinary fish tail bit.

SOUTHERN STATES DECLARES REGULAR MONTHLY DIVIDEND

New York, N. Y., Sept. 15.—The Southern States Oil Company announces its regular monthly dividend of 1 per cent, payable October 20 to stock of record October 1. It is reported that at the October meeting the board of directors will consider the question of the stock allotment for the quarter ending December 31.

METHODS USED IN CLEANING OUT OIL WELLS

(Continued from page 19)

ducing sands might now have been available if it were not for the fact that the water shutoff plane was carried below some of the upper oil sands in the early days making it necessary to land water strings in wells later drilled at this lower level due to water conditions.

Practice of Perforating Wells

The wells are practically all field perforated, that is, the oil string was perforated at the completion of drilling with the casing in the hole. The perforation holes vary in size from ½-inch by 1-inch to ¾-inch by 1½-inch with from 1 to 16 holes per foot, depending on the operator. One company uses the largest perforations, their oil strings being perforated with ¾-inch by 1½-inch holes. Most of the companies are more conservative as to the size and number of the holes desiring not to weaken the oil string too much. To perforate with too large sized holes or with too many holes per foot is not desirable as the oil string is weakened and more frequent redrills of oil strings are necessary. The most skillful operators perforate ½-inch by 1-inch holes with about 9 holes per foot.

Oil is of Low Gravity

Another point to be considered also is the gavity of the oil. The oil is heavy and viscous, averaging 14° Baume gravity. In a few of the wells the oil is as low as 11° Baume gravity. In considering the problems of cleaning out it must be borne in mind that the oil is heavy and that in hydraulicking a well with warm oil the heavy crude oil produced is used for this operation.

Cleaning Out the Wells

During the early history of a field little attention is paid to the methods of cleaning out oil wells. This feature does not demand attention inasmuch as production is high, big profits are being realized, and last but not least, the attention of the Production Department is diverted towards the drilling campaign under way. Finally however, the field is drilled up, the production decreases, and more attention is given to the methods of cleaning out oil wells.

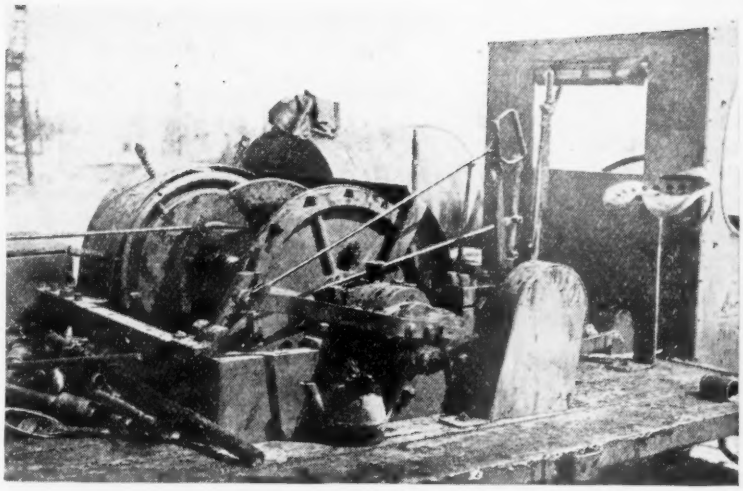


Figure 2.—Small Hopper hoist installed on 2½ ton truck. Used for pulling tubing and cleaning oil wells.

Wells are cleaned out properly or improperly depending on the executive in charge: **companies go bankrupt or are successful enterprises depending upon the success they have in maintaining their production.**

One method—that of hydraulicking wells with hot oil was discarded in past years by certain operators as being of no value when as a matter of fact this is one of the best methods of cleaning out oil wells when applied in the proper manner. Due attention must be paid to all details in the cleaning out of any oil well. To go at this operation in a haphazard and unbusinesslike way as has been frequently done in the past without sufficient study of the method most applicable to the well under consideration, or the improper application of the method to the well, must necessarily entail great additional unnecessary expense and sometimes result in damaging the well to such an extent that instead of being a profitable producer, as it should have been under careful operation, it is made an unprofitable producer and must be redrilled or suspended according to the nature of the damage done.

There are two classes of oil wells which must be cleaned out. They are as follows:

1. Wells into which so much sand has come that sand must be cleaned out to permit oil to come into the hole again and permit tubing to be lowered sufficiently to pump the most oil. Note Figure No. 4.

2. Wells into which no oil or sand will come. These wells must be operated on to open up perforations in oil string and permit oil to have access to the hole.

In regard to sand found in the hole it might be well to state that wells making water are found to differ from wells making practically no water. In wells making water the sand is found in bridges; that is, there will be places where the oil string is free from sand. From the top of the first sand for example, to the bottom of the hole may be 180 feet. However, perhaps only 50 feet to 100 feet of the oil string between these depths contains packed sand. Due to the action of the water in the hole the sand bridges. In cleaning out with cleaning out tools the tools may drop as far as 30 to 60 feet after cleaning out a 10 foot bridge before encountering another bridge. In wells making practically no water the sand is generally found to be solid in the hole, that is, it is not in bridges as is the case of wells making water.

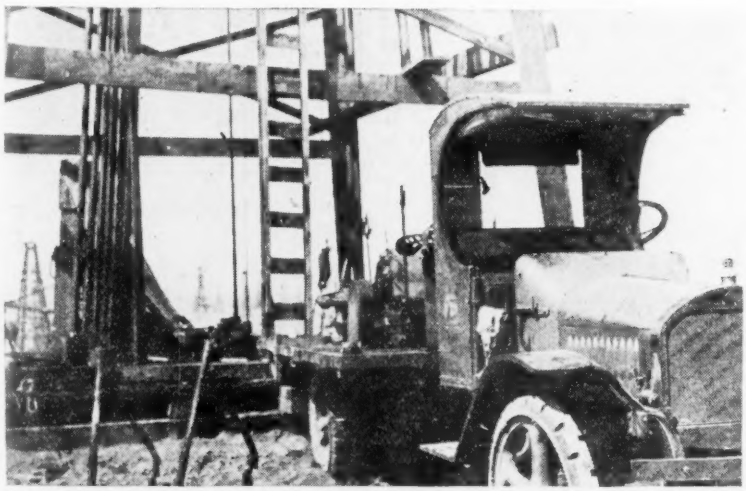


Figure 3.—Hopper hoist on Mack truck ready for work at the well

Methods of Cleaning Out Wells

In order to clean out wells satisfactorily which are sanded the following methods are used:

1. Cleaning out with tools. Drilling and cleaning out sand with scow. Note Figure No. 7. In cleaning out in this way the hole is treated as follows:

(a) No other fluid than that already in the hole is put in to facilitate cleaning out.

(b) A certain amount of distillate is put in to lighten the oil in the hole and permit more satisfactory action with the tools.

(c) A certain amount of water is put in

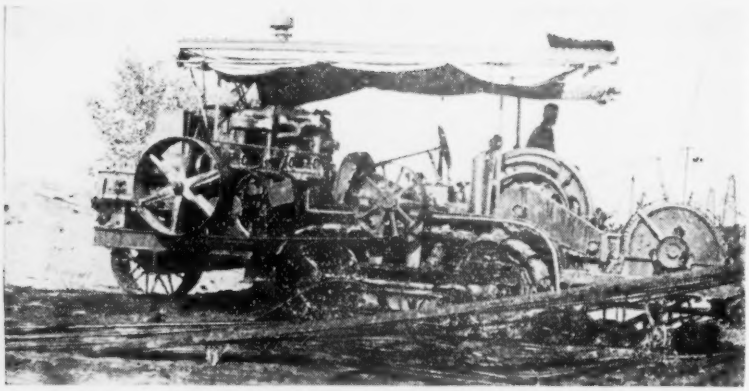


Figure 4.—Hopper hoist installed on 75 H. P. Holt tractor used for pulling tubing and cleaning out wells

to lighten the oil in the hole and permit more satisfactory action with the tools.

(d) A certain amount of warm oil is put into the hole to make the oil less viscous and permit more satisfactory action with the tools.

2. Hydraulicking with hot or warm oil through tubing. Generally referred to as warm oiling to distinguish from the very hot oiling practiced some years ago.

In order to clean out wells into which a satisfactory amount of oil will not enter, the following methods are used:

1. Hole is swabbed with a swab to bring in oil, thus opening up perforations and loosening the sand outside the perforations.

2. Oil or water is run into the oil string thus giving a high head of fluid on the lower part of the hole and forcing the perforations to open, loosening up the sand outside the perforations.

Cleaning Out Sanded Wells With Cleaning Out Tools

A study of the present condition of the well and its past operations may show that it should be cleaned out properly and efficiently with cleaning out tools. The sand should be drilled up with ease to make this operation successful. To delay too long at certain points where the sand is packed hard, due perhaps to water in the hole—under which conditions some other methods probably should have been used—may cause the collapse or parting of the oil string due to the jar of the tools on the packed sand. This is particularly true where the oil string is landed in an oil sand or some other unconsolidated formation which permits a downward movement of the oil string each time the tools fall upon the packed sand. A packed sand can sometimes be removed by drawing out some of the fluid in the hole, thus decreasing the pressure on the sand, permitting it to heave up farther into the hole. The sand can then be removed with more ease inasmuch as it is then less consolidated. However, this operation is seldom performed in the cleaning out work of this field.

In cleaning out wells it is sometimes unnecessary to add any fluid to the hole, the fluid already in the hole permitting the hole to be cleaned out in a most satisfactory manner. A certain amount of distillate is sometimes put into the well to reduce the viscosity of the oil and permit a heavier blow with the tools. One company operating in an area free from water and producing 11° gravity oil generally puts in from 15 to 25 barrels of 26° gravity distillate. The distillate is of course dumped near the top of the sand at the place where the cleaning out tools are working. It is advisable not to put too much distillate at the top of the sand in the hole as it will wash out the sand in the well, that is, wash out the oil contained in the sand, to such an extent that the sand will become packed and it will be difficult to make any headway with the cleaning out tools. And if the tools are run too long on the sand the results may be a collapsed or parted oil string.

A laboratory test with distillate and heavy crude mixed and permitted to stand 15 hours showed that the distillate did not settle out from the heavy crude. Tests showed the top and bottom of the sample to be of the same gravity. When used in the hole a lighter gravity oil is formed, the gravity depending on the amount of distillate used and how it is distributed.

Too great care cannot be exercised in judging the amount of distillate which should be used. What has been said of distillate also applies to putting water into a hole during cleaning out work. According to the condition of the well, a certain amount can be put in with beneficial results. Some operators refuse to run either distillate or water into a well. This attitude is no doubt due to the bad results obtanied by the indiscriminate use of distillate or water at some former time in their experience or in the experience of other operators of their acquaintance. Warm oil can be put into a hole without any danger if it is desired to lessen the viscosity of the oil already in the well. Some operators put the oil into the well at a temperature of 160° F.

Don't Get Oil Too Hot

This method can be used with good effect if properly executed. The sand can be easily removed by this method whether it is badly washed by water or contains considerable oil. This method fell into disrepute in the past among some operators. When properly applied no bad results will be obtained; it is only when the operation is performed without exercising sufficient care that bad results attend its use. When this method was first used some operators introduced the oil into the well at as high a temperature as they could heat it, probably at a temperature of 200° F. and higher as far as can be determined at the present time, which often resulted in the oil string becoming warped or collapsed and "baking the oil sands" in the immediate vicinity of the well to such an extent that a heavy asphalt was formed around the oil string. This prevented the oil from feeding into the hole. The term "baking the oil sands" is a field expression, which should be explained. The oil being heated to such a high temperature naturally lost a large part of what little volatile content it contained. This oil on cooling in the sands around the perforations formed a heavy tar which was a barrier to any oil ready to come into the hole. Good results cannot attend this operation unless all the details concerning it are properly performed. Some operators run the oil into the hole at a temperature of 160° F. and one of the largest companies does not put the oil in at a temperature greater than 120° F. However, oil heated to 160° F. has been used by several operators for a number of years without any bad results attending its use at this temperature. The oil used is, as stated before, a heavy and viscous oil. One operator is handling 11° gravity oil which would give greater trouble in pumping than 14° gravity oil pumped at 120°. The higher the temperature of the oil the less capable it is of holding the sand dislodged in suspension, the principle idea in hydraulicking with warm oil is to hold the sand hydraulicked out in suspension by the oil pumped in so that after the operation is completed the sand held in suspension by the oil can be either pumped or bailed out of the well.

The warm oil, which passes out through the perforations and into the oil sand outside the oil string, thus opening up the

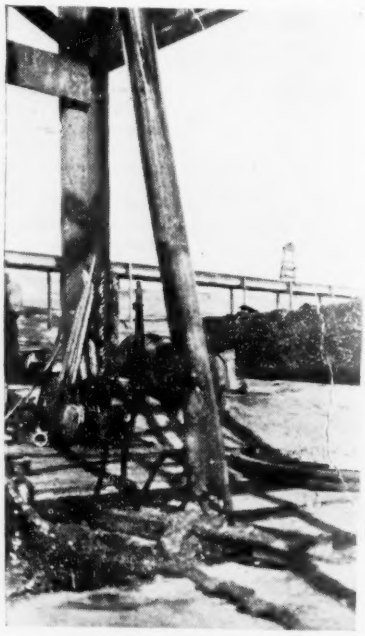


Figure 7.—View showing sand discharged from chiselled-pointed bottom screw used with stem and jars in cleaning out sand in wells. Sand cuttings go up through valve in bottom. At surface sand is discharged by turning 11-inch sleeve and opening hole at lower side of screw as shown in view. The screw is used extensively in cleaning out due to heavy gravity oil.

Facts Which Should Win the Approval of Every User and Seller of

WIRE LINES

A protection all should insist upon—particularly if they buy from warehouse stocks.

There are just two ways to make sure of getting the grade of wire line you buy:

1—By making a Laboratory Test.
2—By using Williamsport Wire Lines containing their patented Telfax Tape Marker.

A Laboratory Test takes time and is expensive.

The Williamsport Patented Telfax Tape Marker built through the entire core of each line enables you to check at a glance the grade you get. There can be no chance for mistakes or substitution. It's a permanent, fixed identification that outlasts the line.

It is put there for your protection and is of vital, far-reaching importance to every wire rope user.

Williamsport wire lines are preferred by many drillers because of the uniform and satisfactory service they render, often under severest conditions.

These uniform results are largely due to the methods, used exclusively by us, in the manufacture of Drilling lines.

The rods from which we draw our wire all come from the same heat and this wire is put into one line, thus maintaining uniform properties in each wire—tests for Tension, Torsion, Elongation and abrasive resistance under these methods prove this.

We use none but the highest quality steel in our drilling lines and only that which passes our rigid tests can enter into the completed lines.

The many difficult conditions which are now met with in drilling operations have been overcome by our experts who have spent many years in the perfecting of Williamsport Drilling lines.

You'll notice the difference if you use one.

Write for our Booklet on "Modern Wire Rope"—just out.

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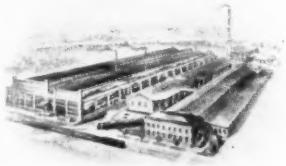
American Tool & Supply Co., Bristow, Okla.

Chadderdon-Nelson Tool & Supply Co., Slick, Okla.

Petroleum Supply Co., Houston and Mexia, Texas.



Federal Supply Co., Electra, Texas.

Sabine Supply Co., Orange, Texas.

Sehnert's, Inc., Haynesville, La.

Bovaird & Seyfang, Pittsburgh and Bradford, Pa.

Branchland Supply Co., Huntington, W. Va., and Paintsville, Ky.

Dunham & Lawler, Los Angeles, Cal.

Montana Lumber & Hdw. Co., Lewistown and Winnett, Mont.

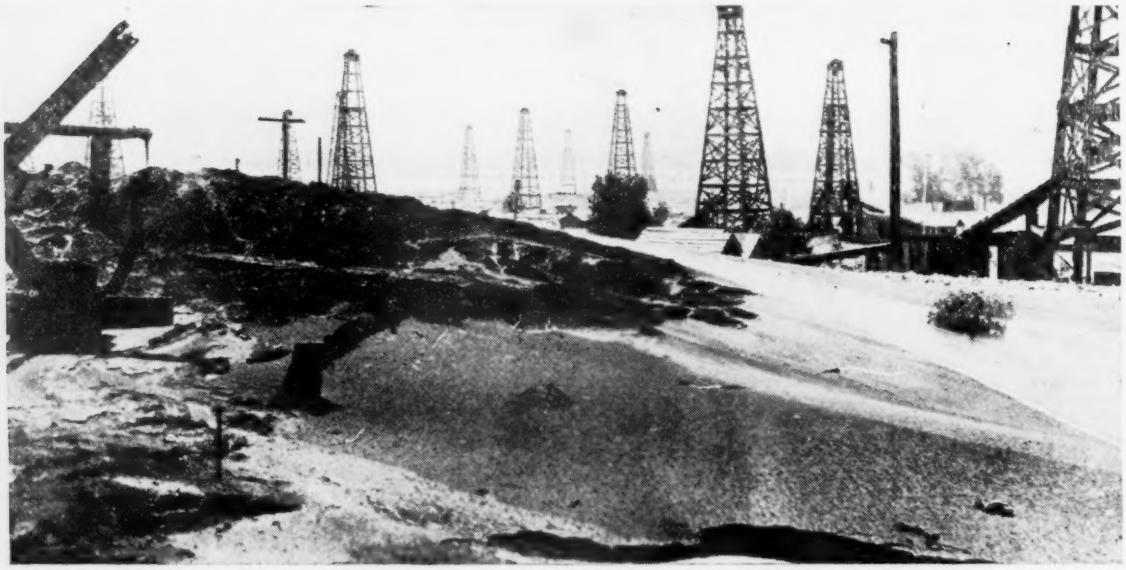


Figure 6.—View showing sand pumped from well since completion in February, 1921.

perforations and somewhat liven.ng up the oil sand, does not have a tendency to "bake the oil sand" and form a heavy asphalt upon cool.ng.

There has been a great deal of discussion with reference to clogged up oil sands around the perforations and the possibility of heavy tar sealing up the perforations. Except in cases where extreme heat or very hot oil has been introduced from the surface to the bottom there is little liklihood that there is a clogged condition around the oil string that cannot be easily removed by swabbing, flooding or hydraulicking with warm oil. In the first place there is practically no change in temperature at the bottom of the hole throughout the year, unless changed by man, and in hydraulicking with warm oil the temperature is not increased sufficiently for there to be any loss in the volatile content of the oil to warrant the supposition that a heavy tar is formed outside the oil string. Again the freedom with which the oil and sand enter the wells shows that no such condition exists. Tests with double packer pumping out through a restricted area of one foot show that it is impossible to build up a pressure against any oil sand in the wells worked on. Where wells have screen pipe there is a possibility of the sand becoming "tight"—that is, the sand being greatly reduced in pore space—due to the finer sands coming in toward the well and filling the pore space between the larger particles. However, in a field such as the one under discussion, where the perforations are large and sand can readily find access to the hole, this condition is not met with. There are cases where oil sands are temporarily sealed off due to shale breaking down and coming in against the perforations, or mud-laden fluid used in drilling or redrilling mudding off the oil sands. However, this condition is not referred to when discussing clogged up oil sands and heavy tar sealing up perforations.

In this operation of introducing warm oil into the hole the oil is pumped through tubing—generally 3-inch tubing—into the sand in the well. It is best to use a pump which can give a pressure of about 900 pounds per square inch, so that a pressure of 400 to 500 pounds per square inch will be obtained at the well. With a pump of this pressure the operation can be more economically performed, inasmuch as it will be done in a shorter time since the speed will be greater. The amount of oil used will be less due to the fact that it will not be necessary to raise the tubing off the sand so frequently to permit the oil to flow out into the sand. By putting a 3-inch to 2-inch nipple on the end of the tubing better results can sometimes be obtained in hydraulicking through a packed sand. The pump is usually at a sump or tank from 100 to 900 feet away from the well being hydraulicked. It can, therefore, be readily seen that a high pressure is necessary at the pump if 400 to 500 pounds is to be obtained at the well. A connection is generally made to the 3-inch lead line of the well which goes to a sump or tank or to a flume. In this way only one 3-inch line is carried to the well, the same line being used when the well is pumped and when the well is hydraulicked. As the oil is always drained off the water at these gathering points and heated before pumping to the main tanks there is no extra cost for preparing the oil for hydraulicking.

In isolated cases it is sometimes necessary to set up tanks and pumps especially for this work. On a property where wells are cleaned out by hydraulicking and no cleaning out tools are operated the lines are permanently laid so that any well can be hydraulicked on very short notice. A heavy connection is used between the line and the tubing in the well.

In wells frequently hydraulicked it has become the best practice to run 40 feet of tubing (2 joints) up one leg of the derrick. A 35-foot hose connects from this high point to the tubing in the well which is generally up in the derrick about 70 feet before the work is started. Note Figure 8. In this way 60 feet of sand can be hydraulicked before it is necessary to discontinue work temporarily until more tubing is screwed on. Ordinarily with the hose on the derrick floor only 20 feet (one joint) can be hydraulicked before it is necessary to screw on another joint.

When the warm oil has hydraulicked the sand out to the bottom of the well or as far as desired there are two courses open. The well can be put to pumping at once—if the pump barrel was put on the tubing at the start of the operation—by raising the tubing to the desired level and inserting the rods. The sand held in suspension by the oil is then pumped out.

The other recourse is to pull the tubing and bail out the oil and sand after which the tubing is put in and the well is pumped.

The former procedure is generally practiced. Better results would no doubt be obtained if more of a study were made as to whether a well should be immediately put to pumping, or the cleaning out tools run in to clean out the sand before putting the well to pumping.

Where considerable packed sand has been hydraulicked out it would probably be the best practice to go in with cleaning out tools after hydraulicking and clean out all the sand before putting the well to pumping. This is necessary in order to avoid the possibility of some of the sand settling out of the oil in the hole or coming into the hole when some of the head of oil in the hole is removed and bridging off—especially in wells making water—near the top of the perforations, thus, cutting down the production.

One operator who was in the habit of putting his wells immediately to pumping at the conclusion of the hydraulicking operation had trouble with his wells due to the sand bridging in the hole shortly after pumping started. He has adopted the method of cleaning out the sand with cleaning out tools after hydraulicking and has had the same wells stay on production for months after putting to pumping

where formerly they would give trouble within a day after hydraulicking.

Amount of Oil Used

The amount of oil used by this method depends on the condition of the sand hydraulicked, that is, whether it is a sand containing oil or a sand badly washed with water; and on the amount of sand removed. However, it might be said that in an 8¼-inch oil string it usually takes about one barrel of oil to hydraulic through one foot of packed sand.

In difficult cases it may require two barrels of oil to the foot. In easier dases where the sand is loose as much as seven feet of sand can sometimes be removed with one barrel of oil. Usually more oil is pumped out within the first 24 hours after the well is put to pumping than is ordinarily pumped in the progress of hydraulicking.

Another point which should be explained is that circulation is not obtained at the top of the casing around the tubing. To obtain circulation would require an excessive amount of oil which would make the operation longer and more costly. A certain amount of oil holding sand in suspension rises up alongside the tubing and a certain abount goes through the perforations and into the oil sand.

Production of Wells Doubled

Hydraulicking has been found to be very successful by several operators. An abnormal oil production is not sought in using this method. It is only desired to keep the wells in as good shape as possible to permit the oil to have access to the hole. Wells which were low producers and which were very difficult to clean out with cleaning out tools have had their production doubled and trebled by using this method. Wells bothered with a small amount of water and sand bridging near the top of the perforations often give continual trouble and the production cannot be maintained where it should be either by cleaning out with cleaning out tools or hydraulicking. However, the sand can be removed more speedily and cheaply by hydraulicking.

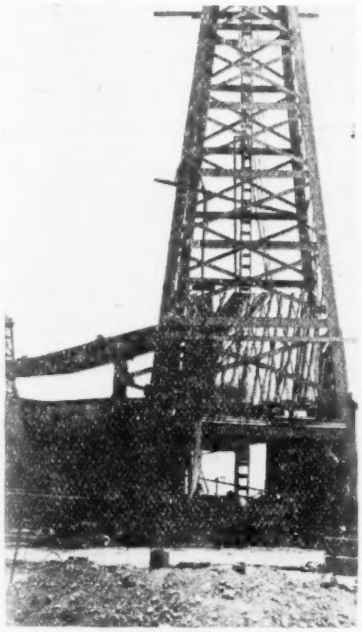


Figure 8.—View showing well being hydraulicked with warm oil. Note hose arrangment so that 60 feet can be hydraulicked before it is necessary to screw on more tubing.

One advantage of hydraulicking with warm oil is that wells which have bad oil strings—collapsed or parted—can often be cleaned out in this wey as the 3-inch tubing can usually be run past the bad place. In this manner the operator can hydraulic out the sand, otherwise the oil string would have to be redrilled immediately to maintain the production, due to the inability to get cleaning out tools past the bad placem the oil string.

Swabbing

Old wells making considerable water and a small amount of oil and which give practically no trouble due to sand coming into the hole are often left alone as it is not thought profitable to work on these wells in order to increase their production. Many wells on properties in this condition are not worked on for years, due to the fact that the operators do not believe it advisable to try to increase their production. In fields having considerable thickness of oil sands, which are separated by clay strata, as at Kern River, and in which the water is migrating through the bottom said, it is sometimes possible to successfully swab wells and bring a considerable increase in oil production. This is due to the fact that in many wells making considerable water the oil production is obtained from the oil sand through which the water is migrating, all the other oil sands being nonproductive due to head of water in the hole and the washed and packed condition of the sand around the perforations adjacent to these sands.

The object of swabbing a well in this condition is therefore, to pull into the hole the packed sand opposite the sands sealed off and permit the oil in these sands to find access to the hole. Wells making as much as 600 barrels of water daily and from no oil to five barrels of oil have been swabbed and afterward steadily produced 10 to 25 barrels of oil per day. These wells are from 1000 feet to 1200 feet deep with a head of from 300 to 400 feet of water in the hole. In swabbing a well in this condition, considerable sand is generally brought into the hole. This is cleaned out with a scow.

As a rule swabbing and cleaning out the sand brought in is carried on for four or five days. However, in difficult cases a week or two weeks may be spent on a well before it is satisfactorily cleaned out.

Wells making little or no water are swabbed frequently after cleaning out the sand as well as otherwise in order to open up the perforations as much as possible and also bring in sand into the hole. The sand around the oil string is thus made less consolidated and a basin or cavity is formed into which the oil and gas can flow without any difficulty. As performed in the field, swabbing is not confined to wells of any certain age. Old and new wells are swabbed for the reasons as cited above, sometimes for bringing in sand, sometimes for opening up the formations, but generally for both reasons. Wells after swabbing frequently double their production declining gradually to their former level when it is necessary to repeat the operation.

Wells should not be swabbed at all where there is any possibility that water may be admittted to the oil sands due to

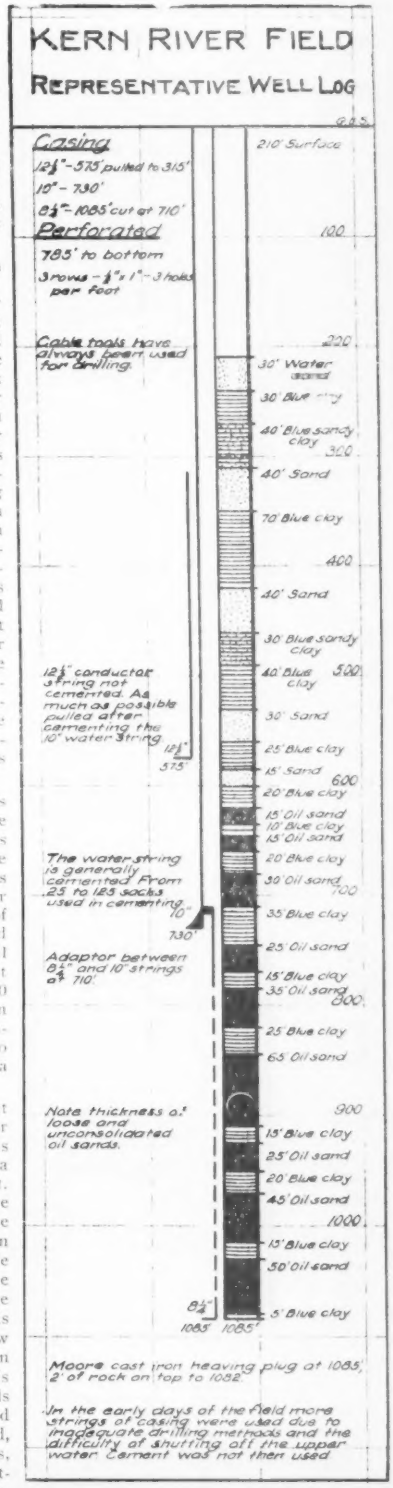


Figure No 5.

Transcontinental in Roumanian Fields

Carpathian Oil Company to develop holdings; first test started

PITTSBURGH, PA., Sept. 18.—Three years ago the chairman of the board of the Transcontinental Oil Company, M. L. Benedum, with a corps of experts, visited the Roumanian oil fields and was greatly impressed with the wonderful possibilities of a large future source of supply of oil in that country, says T. R. Cowell, secretary of the Transcontinental Oil Company, in an article on "Coaxing Crude from the Carpathians" in the company's house magazine, The Marathon Runner of August. Now that company, through a subsidiary, is well entrenched in Roumanian fields.

"Taking advantage of the depreciation of Roumanian money immediately after the World War and the bargains that were then being offered in oil lands, the Company acquired large holdings of 'close-in' acreage in the heart of the various pools that could not be duplicated today at ten times the price paid three years ago.

"In 1914 and 1915 the Roumanian fields produced in round numbers 13,000,000 barrels a year; but, owing to the destruction of many of the wells and refineries by the advancing German armies, the production fell off to a little over 3,000,000 barrels in 1917.

"Since then the fields have been rehabilitated and new wells drilled until at the present time the production is between forty and fifty thousand barrels a day.

"In the Moreni field, where our company has secured large holdings, six oil-producing sands are found in going to a depth of 3000 feet. The richest well in the country was struck in this pool in 1915, and produced in nine months 3,250,000 barrels with an initial daily production of 43,500 barrels. In the Moreni pool there are many wells whose production attained a total of 1,000,000 to 1,500,000 barrels.

"In the Campina pool the oil is produced from three sand formations and the depth varies from 500 to 2300 feet.

"In the Bustenari pool the wells are hand dug and the shafts are sunk to 650 feet.

In the Filipesti and Ceptura pools the wells range in depth from 2600 to 3600 feet.

"The oil in Roumania is of good quality and is readily marketable.

"Prior to the war in 1914 there were in Roumania 380 drilling rigs, 987 producing wells, and 37,000 barrels production of crude per day, of which 71 per cent was produced by the three leading companies, viz.:

Astra Romana (Royal Dutch) with 26 per cent.

Romano Americana (Standard Oil) with 24 per cent.

And Steaua Romana (German Deutsch Bank) with 21 per cent.

"After the war in January, 1921, there were in Roumania 255 drilling rigs, 614 producing wells, and 23,000 barrels production of crude per day.

"In November, 1921, there were in Roumania 377 drilling rigs, 688 producing wells, and 26,000 barrels production of crude per day, an increase of 12 per cent in ten months, of which 68 per cent was produced by the three leading companies, viz.:

"Astra Romana (Royal Dutch or Shell) with 28 per cent

"Romana Americano (Standard Oil) with 21 per cent, and Steaua Romana (now a Roumanian-French-English group) with 19 per cent.

"During the past year this production has been greatly increased and practically doubled.

"Mr. Levi Smith, vice president of Mid-Colombia Oil and Development Company, and Mr. Wm. L. Chrisman, vice president of Transcontinental Oil Company, sailed April 21, last, and are now at Bucharest, Roumania, looking after the company's holdings and operations.

"A Roumanian company has been organized which will be called the 'Carpathian Oil Company,' all the stock of which will be owned by the Mid-Colombia Oil and Development Company, a subsidiary of Transcontinental Oil Company. Mr. Smith will have full supervision of our Roumanian operations. Late advices from him indicate that he has material on the ground for the first well on a tract of some 500 acres, which the company owns in fee; by the time this article is published the drill will be on its way to the producing formations. Several other wells are now drilling adjacent to other acreage held by the company that will pretty well test these areas.

"Labor conditions in Roumania have greatly improved since the war. In the last twelve months there have been no strikes and the price of labor is moderate. The Roumanian drillers, on the actual rate of exchange, are not paid more than $1.00 per day, and the helpers about twenty-five cents per day.

"Plenty of material can be had from Germany, and very cheaply indeed. For instance, the casing which is now sold by weight only is about $4.30 a cwt. (about 4 cents a pound) f. o. b. German mills."

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a collapse of the shale covering above the oil sand when the oil sand support below is taken away. There are fields in which this condition exists. The operator therefore, must be careful to note whether he can swab wells without this danger. In this regard it might be well to state that it is not sufficient to look for the water sands reported in drilling the well. If the water string was landed in some impervious formation such as clay, water can be looked for in any sandy formation immediately above the formation landed in, for if water was not there naturally, it would no doubt be there after drilling the well. If the water string was cemented, water has probably been sealed off some distance from the shoe. This of course, depends on the amount of cement used, the formations as regards their porosity, and the mixture of the cement. The casing landings of the other wells in the vicinity should also be studied in this regard. At Kern River the danger of a collapse of the shale covering is not great, due to the thickness of the shale and the fact that the first oil sand below the shoe of the water string is generally not perforated.

Flooding with Oil or Water

Flooding with oil or water is not general as it does not give sufficient good results to make its use general. In this method oil or water is pumped into the casing to give a high head on the lower part of the well thus opening up the perforations. This method is not used except where there is very little sand in the hole. Oil is generally used for flooding purposes as it livens up the oil sand behind the oil string to a greater extent than is possible with water. However, water is sometimes used as a last resort. One operator could not obtain satisfactory results by flooding a well with warm oil. He put in a high head of water into the hole and obtained much better results. In flooding with oil the amount put into the well depends on its condition, such as the amount of oil already in the hole and the pressure it is desired to put on the lower part of the well. In the average case 20 to 25 barrels of warm oil will be used for this operation.

Conclusion

Because wells are found in the various conditions as discussed on the previous pages it is the business of the individual operator to decide which method is the best for his particular property. Perhaps on a small property the condition of the wells may be such that each well may respond best to a different treatment.

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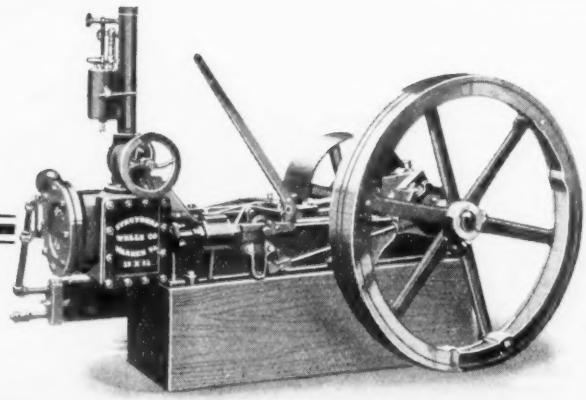

Wiggle Stick Artists Bob Up Again; This Time It's Out in California

LOS ANGELES, CAL., Sept. 15.—The oil boom in this territory has reached the wiggle stick stage. It is not really a "boom" like Mid-Continent people are familiar with, according to one of the first authorities on such matters, from Fort Worth. He said recently that "Things are pretty slow here. They lack the guts."

But those who have watched regular booms say that there are certain well defined stages in each boom. First, the discovery of a new field and all the frenzied excitement and publicity incident thereto; then the scramble for leases, and the operation of "lease sharks" who buy ahead of the trend of things, and peddle at a profit; then the real show starts—stock selling, unit selling, promotions of every character. The peak of the boom has been reached at this point. Later comes refinery promoters of various kinds; then the mystery men who will perform miracles, represented by the wiggle stick crowd; after that the salvagers who can spread a dollar over a wealth of deflated values; and last comes a systematic campaign on the part of county or state authorities to prevent "the people" from investing in questionable securities.

Two of 'Em

Instances of at least two wiggle stick operations have just been brought to light here. In each instance the people who are promoting the oil locator are actually backing the thing with their own money, as well as that of others.

According to reports, a well will be drilled in a cabbage patch southeast of Los Angeles, if they can shove the Japs out of the way long enough to get started, and the location has been made by a mechanical oil finder.

If this were a new experience it would attract some curiosity, but every little oil field has a story of its own about some especially gifted wiggle stick man. One of the most convincing stories of this kind, however, is related by an oil man of Dallas.

A wiggle stick wizard blew into town at just the right moment—when everybody was ready to believe just about anything can happen in an oil field. A few opportunists got hold of him, and together they began hunting an oil field that would be close to Dallas, at least near enough for strategic purposes, and easy to reach by automobile. Such a field was soon found, out west of the city, in the black land cotton country, where the derrick might be seen from the city buildings, and where those thinking of buying stock might easily make a trip to the "field."

From Missouri

One native Texan, a little more cautious than usual, asked for a demonstration of the oil finder. It was a business looking machine, alright, with a dial, and an arrow that would point directly towards any reservoir of oil within thousands of feet. The owner of the machine was more than willing to make the demonstration, and they started out to the supposed "field."

By purpose, of the Texan, he took a certain route that lay within a block of an oil refinery in West Dallas. He watched the instrument and it was sound asleep. Thinking maybe there was not enough oil at that refinery, the driver went near the Texas Company's big plant west of Dallas, and the machine "slept right through it all." But they drove on out to the cotton fields, and when they approached the newcomer's leases, the little oil finder began to jump around and act like all the oil in the world was right under the car wheels.

That is still a cotton country.

Field Outlined

The Santa Fe Springs field was thoroughly "outlined" several months ago, by a man who came to California from the East, and who had been employed by one of the major companies of the country, and had some unmistakable recommendations and endorsements. But he had developed a mechanical locator, and was as sure as fate that there was no chance for error.

At that time only two or three wells had been completed at Santa Fe Springs. This man took his locator to the field, went over the whole country, made detailed sudies of every part of the area, and finally made a map, completely outlining the oil bearing area, and unequivocally pointing out just where oil would be found, and where it would not be found.

That was before the field began spreading out. The development of the past few months has knocked the magician's map into a cocked hat.

A SUPER FIELD PUMP

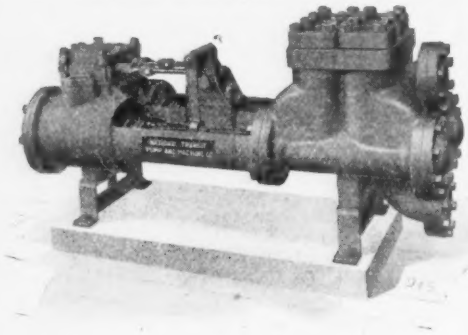

Fig. 945

Our new Bulletin No. 105-A describes these pumps

10x4½x10"
Valve Pot Type
TRANSIT
PUMP

The pump illustrated above has come to be looked upon as a Super Field Pump by some of the largest producing and pipe line companies in the field. Its rugged construction, its larger capacity of 80 to 120 barrels per hour, and its higher working pressure of 600 to 800 lbs., overcome many of the limitations of the ordinary field pump.

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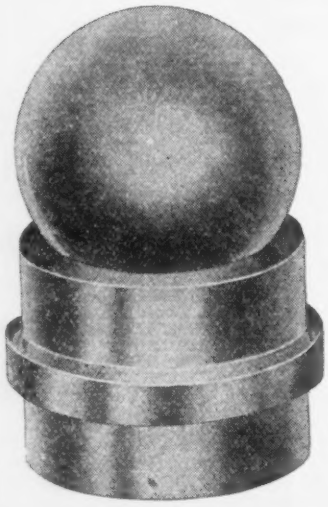

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Letters of a Coastal Bollweevil to His Sweetheart

Paul the bollweevil, who has turned geologist, has great plans in mind. He is planning to go to Denver to attend the meeting of the petroleum geologists there next month—and after that he may accept a job with the University of Chicago.

Paul's new work has paid him much in prestige, but his bank account reminds us of the balance of some of the companies who played Ranger strong in the old days.

Cleopatry honey:

if you can get enuf close 2gether so as 2 make a good apeerance, and can rase a littl mony, maybe i can take you with me up 2 denver when me and the othr geologists of the country are gatherd 2 discus important mattrs of intrest 2 the oil industry.

i want 2 sea some of the boys that is geologizin the country when i go up their. i understand that bill Rather whitch is a geologist that use 2 live in dallas is perfesserin at a school in checargo and i am hopin that if he decides 2 come back 2 tex. i can maybe git his job in checargo. you no i was up 2 checargo onst and i liked it fine.

of coarse i have bin going up fast senst i went 2 kossy and told col. humpthreys and julus fowes whear the oil in the kossy well was comin frum, and they has bin a lot of discusin on the corkashus limestone whitch i discovered up 2 kossy.

A bird up in okla. has sent down for me 2 cum up and locate the farmer sand for him in pushmobile county, and i gess i will go as soon as i can git a ride up that way.

awl of the cos. are intrest in my work, and on how quick i can give a decision. you sea most of thees hear geologists has got 2 study and figr and reed and tawk to 1 and another befoar they can tell the gy whitch informashun they think he shood have, whitch is i gess the reason they charge so mutch, you sea they have 2 split up the fee (that means the mony they git) with the other fellers, while i donot find it necessry 2 do no figerin atall. I just look and say what i think rite offen the reel, so to speek.

well, it gotten in the paprs about my bein sutch a good geologist and now sum of the best knowd geologists of the cuntry is callin me up and astin me for my idees. i donot want 2 apeer stuck up, but hony i aint tellin them nothin, becaws i donot intend to split my mony when i make some.

i sent in a bill 2 col. humpthreys for 30 dollars for my work at kossy and i aint heerd from him none yet, but i wood not be surprize if he stuck 5 more dollars on it becaws of the publisity the co. gotten on it. if i get that 35 dollars i maybe can ride up 2 denvr on a trane with you. if we go i wish you wood git one of them 1000 mile luntch baskets like johu gaillard gotten down to goose creek after he gotten his milyun and a half dollars from the guffey peepl and started on his tower around the world. you can put in plenty of boiled egs and we can save a lot of mony on our eetin, goin 2 denvr, i remembr onst when i went to chercago back in 1917, the prises in the dining car on the tarne was somethin feerce. i et 40 sents worth and didnot get nothin but a naptkin and a quill toothpick, and i cood not sell the naptkin in chercago for more than ten sents.

awl us prominent geologists will be in denvr when the assysosashun meets their. they will be men whitch is knowd awl over the world like i am knowd down in tex. well i gess when that meetin is over i will be perty well knowd awl over the wurld, 2.

if i can git that job in chercago it will be a fine thing becaws we can then git married. i always figered that it wood be cheaper for us 2 to git a litl room and let you do the cookin than it wood be for me 2 eat at them restyrants by myself.

as i understand the job whitch Rather has, awl he has got 2 do is 2 talk to a buntch of young fellrs and tell 'em what he knows. well that certnly ort to be a easy job for me, becaws you no how good a talkr i am. remembr the time i talkt your ma out of 2 months board down 2 goose creek becaus you and me was goin to git marryd back in 1916. well i gess she wilnot be disapointed when she hears how near we air to gettin married now.

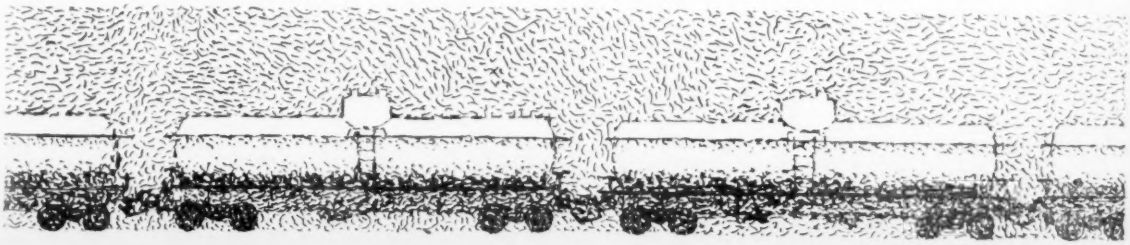
if i can gitten the job of talkin 2 them boys up in chercago and analyzin things for them, i gess that it wont be a easy thing, eh, cleo.

the way i got it figerd out, is that if them boys knowd anything about geologisting, they wood not be goin to school, so anything i tells them goes, see? if a fellr wants a easier job than that, i say he is lazy.

well, start gettin yore close reddy.

your

Paul.



PERSONAL MENTION-MEN YOU KNOW

George G. Golden of the Victory Petroleum Company of Wichita Falls, was visiting with relatives and friends in Pittsburgh, Pennsylvania, last week.

S. E. J. Cox, Abner Davis, "Col." W. E. Hawley, and many others well known in the oil-boom towns of the Mid-Continent, are watching the "big works" in Southern California now.

O. C. Hohl, salesman for the Oil Well Supply Company, Houston, Texas, was unable to be on the job for several days last week on account of the illness of his little daughter, Florence.

M. R. Whitmore, district credit manager of the Continental Supply Company, Houston, Texas, is spending his vacation in St. Louis. Mr. Whitmore will visit New York City before returning to Houston.

Carson Underwood, store manager for the Republic Supply Company at Tulsa, Oklahoma, has just returned after spending a week at headquarters in Houston, Texas.

J. E. Rittersbacher, president of the American Well and Prospecting Company, Corsicana, Texas, returned last week with his family after a visit of several weeks in Los Angeles, California.

L. C. Scott, sales manager for Bell Pump and Larkin Packer Company, made his rounds in Houston last week.

D. N. Womack, city salesman for Southern Pump and Engine Company, Houston, Texas, is on a business trip in the Rio Grande valley. Boys, look in his luggage for 'equipment with a kick" when he returns.

W. W. Tarbell of Garnett, Kansas, was a visitor in Tulsa last week.

Harry Tibbens died at Casper, Wyoming September 9. He was a brother of Grant Stibbens of Tulsa, president of the Gladys Belle Oil Company and prominent in Mid-Continent oil affairs. The body was taken to the old family home at Washington, Pennsylvania, for burial.

E. F. Collins, El Dorado manager for Lucey Manufacturing Corporation, Houston, Texas, spent his vacation at Hot Springs, Arkansas.

F. Sharp, secretary and treasurer of Lucey Manufacturing Corporation Houston, Texas, returned this week from a business trip in the Mexia field.

C. E. Crawley, vice president of the Sinclair Oil and Gas Company, is another member of the Tulsa oil fraternity doing Europe this year. With his wife he sailed August 23.

C. A. Lamm, once mayor of Bartlesville, Oklahoma, has joined the Tulsa sales force of the Bridgeport Machine and Tool Company.

M. B. SWEENEY,
in charge of production for the Sun Company in Texas, Louisiana and Arkansas. Mr. Sweeney came to Texas for the Sun Company during the early days of Spindle Top.

J. A. Sivallis of Bartlesville, Oklahoma, A. H. Black of Independence, Kansas, and W. H. Price of Woodville, Ohio, of the firm of Black, Sivallis and Bryson, arrived in Casper, Wyoming, September 16. This firm is one of the pioneers and also one of the largest in the tank manufacturing business, having branches all over the Mid-Continent field. A branch has been maintained here for several years although the business has been conducted on a smaller scale than in other territories and it is believed that the present visit will result in broadening the expansion of the local plant as the members of the firm are here for the purpose of investigating the situation with the view of enlarging.

W. W. Fondren, vice president of production department of the Gulf Coast for Humble Oil & Refining Company, Houston, Texas, left September 16, on a two-weeks' business trip to New York.

W. B. McCarter, with The Texas Company, Houston, Texas, is spending his vacation, but no one seems to know just where "Mack" is hanging out.

D. S. Hammond, president, and William P. Weichel, secretary of the Midwest and Gulf Oil Corporation, left Tulsa last week for New York to attend a meeting of the directors of the concern.

J. George Wright, agent of the Osage Indians with headquarters at Ponca City, was a Tulsa visitor last week.

E. J. Shaffer of the Shaffer Specialty Company of Tulsa is back at headquarters after a vacation of two weeks spent in the Ozark mountains.

R. E. Cross has joined the sales force of the Oklahoma Tool and Supply Company. He will work in Tulsa territory.

Francis P. Kendall, sales manager of the H. K. Stahl Oil Company, St. Paul, Minnesota, was a visitor at the Marland Refining Company offices at Ponca City, Oklahoma, August 31. While there Mr. Kendall was driven to the 101 Ranch by Wesley I. Nunn and was fortunate enough to see the preliminaries of the annual round-up at the 101 Ranch. He got to see a large village of Indians from the surrounding country, an Indian dance and a roping contest.

Richard H. Lee, representative of the Charles N. Hough Manufacturing Company of Franklin, Pennsylvania, was in Houston during the past week on company business.

T. J. Donoghue, first vice president of The Texas Company, Houston, Texas, will be in New York on business for the company until October 1.

Elliott Jones, president and W. B. Pate, sales manager, both of Elliott Jones and Company, Inc., which operates a refinery at San Antonio, spent several days in Wichita Falls last week mingling with old friends in refining and marketing circles.

Dana H. Kelsey, superintendent of Prairie, headquarters at Tulsa, is back at his desk after a vacation of several weeks.

Patterson Leaves Texas Co.; Goes With P. & R.

Houston, Texas, Sept. 18.—A. B. Patterson, general superintendent of production for The Texas Company's South Texas division, has resigned his position with The Texas Company, effective October 1, and will become associated with the Producers and Refiners Corporation in a very responsible position. Mr. Patterson's new headquarters will be Denver and he will be in charge of production for P. & R. Mr. Patterson will have charge of the entire field operations of this company, which is now operating in Oklahoma, Wyoming and Montana, and any new territory that it may develop.

Mr. Patterson entered the service of The Texas Company eight years ago as assistant general superintendent of the production department, South Texas division, and has been in the Gulf Coast territory the entire period with exception of two years, during which time he was in charge of production for The Texas Company in North Texas, headquarters Wichita Falls. Previous to his connection with The Texas Company he operated in the fields of north and south Louisiana and South Texas for several Beaumont companies.

It is understood that Mr. Patterson will be succeeded as general superintendent of the production department of The Texas Company, South Texas division, by W. V. Bowles, his present assistant. Mr. Bowles has been with the company during the past seven years and is widely known among oil men of the Gulf Coast.

The Texas Company has had a very profitable production under the supervision of Mr. Patterson and now has a total daily average in the Gulf Coast of approximately 28,000 barrels.

The Gulf Coast operators, practically all of whom have enjoyed the friendship of Mr. Patterson, will regret to learn of his departure from The Texas Company and this territory.

E. W. Hammond, general superintendent of the South American Gulf Oil Corporation, is in Houston for a stay of several weeks. Mr. Hammond's family returned with him and will remain here when he returns to the company's fields in South America. He is a Houston man and expresses his pleasure in being in the city again.

George H. Pratt, scout for the Gulf Production Company in the Panhandle section of Texas with headquarters at Amarillo, has been on the receiving end of showers of congratulations this past week from his friends on the strength of the arrival of a youngster at his home September 14. Pratt included the good news that a girl had arrived and that both mother and child were doing nicely when he forwarded his daily field report to the district offices of his company at Wichita Falls, and was immediately wired for details on the dimensions, weight and disposition made of the new arrival.

D. F. Connolly, of the Texas Company, New York offices, is in Casper, Wyoming, with T. J. Donoghue, first vice president of the Texas Company, and A. L. Beaty, president of The Texas Company, and together they will make a tour of inspection of the Wyoming fields, and other fields in the Rocky Mountain region.

Bill Smullen About to Get Wildcat Producer

Los Angeles, Calif., Sept. 15.—W. H. Smullen is about to put the Fairview Oil Company on the velvet, and add another field to California's long list, with a wildcat well located several miles from production, back on the plain from Huntington Beach.

The well has been drilling for several months, and there had been more or less hectic efforts to get production over this territory in past years, but nothing of any value had ever been obtained between Santa Fe Springs and the Beach.

The new well is now setting 8¼-inch casing at 4088 feet. Cement will have to set for at least two weeks before going into the oil sand. The hole stopped at the top of the sand, a sample of which showed a good degree of saturation, and the owners of the company are enthusiastic about the well. No estimate of its production can be made until the sand is explored further.

W. H. Smullen, old Standard Oil Company production man, and recently with the Humble Oil and Refining Company, is directing head of the Fairview Oil Company. A. W. Williamson is president of the concern and George S. Taylor, secretary. The company has between 300 and 400 acres in the vicinity of the well.

Mr. Capen, superintendent in Casper of The Texas Company, recently purchased a handsome $17,000 residence in Casper, where he plans to make his home for the time being.

CHAPMAN Valves

Cast Steel Drilling Gates

TESTED TO 2500 POUNDS. Every valve tested to 2500 pounds per square inch (a 24-hour test) before leaving the factory.

MORE THAN DOUBLE THE STRENGTH OF CAST IRON. Chapman cast steel has a tensile strength of 65,000 pounds per square inch (elastic limit not less than half the tensile strength). This permits the use of lighter construction—thus the Chapman steel drilling gate is

LESS THAN HALF THE WEIGHT OF CAST IRON VALVES. Easy to handle in the field, lower transportation charges, etc.

Large stocks of these valves in Beaumont

Write for full information on the last word in drilling valves. Also Catalog No. 40, describing our complete line of valves for all phases of the oil industry.

The Chapman Valve Manufacturing Co.

INDIAN ORCHARD, MASS.

Houston Office: Beatty Building. Phone: Preston 6939

SQUEAKS from the BULLWHEEL

EARTHQUAKES

Harry P. Johnson, a well known consulting engineer of California, in addressing the Southern California section of the Engineering Club once gave the following amusing theory regarding earthquakes and petroleum:

"Until recently I have been a firm believer in the fault theory of earthquakes. My belief however was rudely shaken by a piece of evidence that came to me during a visit to Southwestern Texas. An old darky preacher there has evolved a most remarkable theory in regard to the cause of earthquakes, which certainly has elements of truth in it. I am sure it will be enlightening to everybody and a warning to all who are interested in the oil business. Here is the old darky's theory as set forth in a sermon to his people:

" 'Bredren en sistern: Dis evenin' my tex' am gwine to be drawn fum de phenomenums what am bin goin' on dis last three en fo' years. You know that de good Lawd in his impotency say to de reath "Resolve on yo' axle" En de reath don begun to resolve on 'er axle. En den de good Lawd (perhaps somewhat of an engineer) says, "We cant make dis here earth keep on resolvin' on 'er axle 'less we don grease 'er up." So he planted deep down in de bowels of de earth laghe, laghe quantities of dis here lubercant stuff, what he calls peetrolym; en dey puts dat peetrolym in de bowels of de earth fo' a puhpose—put it dere so it cud work in roun' dat great, big, long axle dat runs tru de norf en souf poles, en makes de earth resolve nice en smooth. En so she resolve five or six thousand year, till dere cum along John D. Rockefeller, en a whole lot of uder big fellers, en dey go roun' en dey ohganize dese here peetrolym companies en gets vast quantities of filthy lucre inter dere hands, en dey goes en drills one or two holes here en dere, but all roun' over de world dey drills em en even cums into our blessed Texas en drills thousands of holes! What is de result? Why, dis here oil comes bubblin' out en dey sticks it in de pipe lines, en sticks it in der tank cars, en dey ships it all roun' all over de country to run dese here autymobiles. En, bredren en sistern! I abjuhes yo' don' sit roun' here listenin' to me no longah, but go out inter de broad acres of de gran' state of Texas en say to dese here Oil Kings, "see here, yo' stop drillin' dese here wells, cause ef yo' don' dere's gwine be trouble." Why fo' trouble? "Cause ever' time yo' takes out any oil, de ol' earth gwine squinch on 'er axle, en ever time she squinch on 'er axle she gwine cause earthquakes." Ever' place down in California en down in South America dey bin havin' squinches, en ef yo' don' stop dem takin' out dis here oil, dis ol' earth she gwine give yo' one last big squinch squinch, en den, Lawdy, where yo' all gwine be?' "

ON THE EL DORADO TRAIN

When asked to join the game, he declined, saying he had a hundred reasons for not playing. "Give us one," they asked.

"The first one is, I haven't any money."

"You can stick the other 99 in your hip-pocket," came the final chorus.

FAIRY TALES

The "scout council" sitting in regular session convened along the curb of a well known bank building in Shreveport recently recorded the following story on R. Lane Grigsby, production superintendent of Shreveport Producing and Refining Company:

"Mother?" called Betty Lane (Grigsby's daughter).

"Yes, dear."

"Tell me a fairy story before I go to sleep, will you?"

"Wait 'till your father comes home, dear, and he'll tell us both one."

Sign in an oil company's office at Shreveport:

OUR ONE WORD SERMON
"KWITCHERBELLIAKIN."

Old maids always imagine there is a man in the house at night—but married women know better.

BUSINESS PSYCHOLOGY

Suppoze Ed, the Gen. Soup wants a pumper. Why all he haz to do is let the applekants walk rite in hiz offus an az they kums in he says "Good Mornin." If enny uf the apps looks around fur a seat and then sits down before he ansers why rite off the Gen Soup knows he is a A 1 pumper and hires him.

Or maybe he wants a driller. Why all he doez after findin out the number uf beats per minute hiz heart pounds and whether he chews Mail Pouch or not, iz give him a Daily Drillin Repoart to make out, an if you kan read it after he gets thru why the Soup knows he aint no driller, and if he kant why he hires him.

Fur an A 1 rousterbout why just ask him if he knows whose country W. Va. iz an if he sez "God's Country," why classify him rite off az a genuine rouster.

Uf koarse Ed, sum jobs kan be filled a gud deal eazier than this like a warehouse clerk ur a field clerk. In kase wun uf the same is needed why all you haz to do iz go get wun from the state insane asylum, but there are lots uf jobs which aint so eazy filled.—Pure Oil News

"Ah, little one," said the facetious patron, "I could sit here all day and let you work on my nails."

"I am afraid you couldn't," said the fair manicure.

"Why not?"

"The large barber up in front is my husband. I can tell from the way he is shuffling his feet that as soon as he gets through shaving the man he is working on he is going to stroll back here."—Birmingham Age-Herald.

Pat to Mike: "Did you hear that England was going to set Ireland free?"

Mike: "They are?"

"Yes."

"And we don't have to fight any longer for it?"

"No."

"Ain't that just like the dirty English?"
—Stanolind Record.

J. A. Donan, who used to ramble all over the southwest for the Oil Trade Journal, and who then associated himself wiht Perry Scranton up at Dallas in the Ranger days, doing a stock and bond business, and who is now a S. O. of N. J. man at 26 Broadway, has taken unto himself a wife. The OIL WEEKLY is in receipt of announcement of his marriage to Miss Ruth Colby of Montclair, New Jersey. They will be at home after December 1 at 242 Park street, Montclair. Jimmie's friends will all be glad to know that he has at last settled down to a point where they know they can reach him in the evening when they visit the Big City. The last time we were up there Jimmie and our wife and the writer went out to view a show—and somehow or other Jimmie and I and our wife got separated and Jimmie and I wound up at a place with a French name where you could get "red grape juice" if you knew the "big fellow." We hope them times ain't all in the past, as the bollweevil says, because, Jim, we're coming up to Noo Yawk as soon as the frost is on th' pumpkin.

"Hal" M. Arthur, general manager of the Shreveport-El Dorado Pipe Line Company, when not actively engaged in company affairs, does a little farming at his Forbing place. He raises cows and chickens. The other day, so it is told on him, one of his cows chewed off a rooster's tail, and the next day whilst milking the critter, she gave a gallon and a half of the finest kind of cock-tail!

Houston, Texas, Sep.. 19.—The Sun Company now has two 1000-barrel steel tanks under construction at High Island, Galveston County, and when completed will put its Cade 4 on the pump. The tanks are being erected upon a hill near the well which is being equipped with a standard rig. All grass has been cut from around the well to prevent fire.

GUIDE FOR PURCHASERS

Air Lift Pumping Equipment
Gardner Governor Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

Attorneys
Hirsch & Hannay
Vinson, Elkins & Wood

Agitators
Chicago Bridge & Iron Works
Kaw Boiler Works Co.

Balls and Seats
The Charles N. Hough Mfg Co.

Banks
Exchange Banks of Tulsa
First National Bank of Tulsa

Belting
Atlas Supply Co.
Bridgeport Machine Co.
Frick-Reid Supply Co.
Lucey Mfg. Corp.
Norris Bros.
Oil Well Supply Co
The National Supply Cos.

Boilers
Atlas Supply Co.
Bridgeport Machine Co.
The Brownell Co.
Frick-Reid Supply Co.
Kaw Boiler Works Co.
The National Supply Cos.
Oil Well Supply Co.
Oklahoma Tool & Sup. Co.
Texas Supply Co.
Titusville Iron Works Co.
Tulsa Boiler & Sheet Iron Wks.
United Iron Works, Inc.
Youngstown Boiler & Tank Co.
See Oil Well Supplies & Tanks

Bolt Machines
Williams Tool Corporation

Burners
Gaso Pump & Burner Mfg. Co.
Norris Bros.

Bull Wheels
International Derrick & Equipment Co.

Casing Shoes
Bridgeport Machine Co.
Gulf Coast Machine & Sup. Co.
The National Supply Cos.
Pelican Well Tool & Supply Co.

Compressors
Atlas Supply Co.
Clark Bros. Co.
Gardner Governor Co.
F. W. Heitmann Co.
Hope Engineering Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.
United Iron Works, Inc.

Cordage
The National Supply Cos.

Couplings
Harrisburg Pipe & Pipe Bending Co.

Crown Blocks
American Well & Pros. Co.
Boykin Machinery & Supply Co.
Gulf Coast Machine & Sup. Co.
International Derrick & Equipment Co.
Lucey Manufacturing Corp.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.

Dehydrating Processes
W. S. Barnickel & Co.
De Laval Separator Co.
Petroleum Rectifying Co.

Derricks and Rigs
International Derrick & Equipment Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Robertson-MacDonald Lbr. Co.
Superior Tube Co.

Diamond Core Drills
Sullivan Machinery Co.

Ditchers
Buckeye Traction Ditcher Co.

Draw Works
American Well & Pros. Co.
Boykin Machinery & Sup. Co.

Drilling Cables
Bridgeport Machine Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
The National Supply Cos.
Peden Iron & Steel Co.
Williamsport Wire Rope Dist. Co.

Drilling Machines
Bridgeport Machine Co.
Parkersburg Rig & Reel Co.
Robertson-MacDonald Lbr. Co.

Drill Pipe
Reading Iron Co.
Standard Seamless Tube Co.
Texas Supply Co.

Drilling Equipment
American Well & Pros. Co.
Bridgeport Machine Co.
Union Tool Co.

Drive Pipe
Reading Iron Co.

Electrical Equipment
Enameled Metals Co.
Southwest Gen. Elec. Co.
Westinghouse Elec. & Mfg. Co.

Elevators
Bridgeport Machine Co.
Dunn Manufacturing Co.
Gulf Coast Machine & Sup. Co.
Norris Bros.
Wilson & Willard Mfg. Co.

Engineers
Samuel J. Caudill
F. W. Freeborn Eng. Co.
James Glenn
A. S. Henley
Geo. C. Matson
Lee C. Moore & Co.

Engines, Diesel
Western Machinery Co.

Engines, Gas
Atlas Supply Co.
Foos Gas Engine Co.
Western Machinery Co.

Engines, Oil
Atlas Supply Co.
Western Machinery Co.

Engines. Pumping
Western Machinery Co.

Engines
Ajax Iron Works
American Well & Pros. Co.
Atlas Supply Co.
Bessemer Gas Engine Co.
Bridgeport Machine Co.
The Brownell Co.
Clark Bros. Co.
De La Vergne Machine Co.
Foos Gas Engine Co.
Frick-Reid Supply Co.
Hope Engineering Co.
Ingersoll-Rand Co.
Lucey Manufacturing Corp.
The National Supply Cos.
National Transit Pump & Machine Co.
Oil Well Supply Co.
Peden Iron & Steel Co.
Southern Engine & Pump Co.
Titusville Iron Works Co.

Fire Protection
Foamite-Childs Corporation

Fish Tail Bits
American Well & Pros. Co.
Gulf Coast Machine & Sup. Co.
Pelican Well Tool & Sup. Co.
W. K. M. Company

Floor Circle Brace
Dunn Manufacturing Co.

Fuel Oil
Empire Refineries
Gulf Refining Company
Sinclair Refining Company
White Oil Corporation

Gasoline Extraction Compressors
Bessemer Gas Engine Co.
Clark Bros. Co.
Gardner Governor Co.
Ingersoll-Rand Co.
Kaw Boiler Works Co.
Sullivan Machinery Co.

Gasoline and Oil Storage Tanks
Chicago Bridge & Iron Works
Kansas Cty Struct. Steel Co.
Kaw Boiler Works Co.
Parkersburg Rig & Reel Co.

Gas Traps
Trumble Gas Trap Co.

Gauges
The Foxboro Co., Inc.

Geologists
Samuel J. Caudill
James L. Darnell
Alexander Deussen
Dorsey Hager
A. S. Henley
Robert T. Hill
Edwin B. Hopkins
Geo. C. Matson

Gauge Boards
The Foxboro Co., Inc.

Genuine Wrought Iron Casing
Reading Iron Co.

Grips and Clamps
Norris Bros.

Hose
B. F. Goodrich Rubber Co.

Laboratory Equipment
Fort Worth Laboratories

Lighting Systems
Bridgeport Machine Co.
Lucey Manufacturing Corp.
Westinghouse Elec. & Mfg. Co.

Line Pipe
Reading Iron Co.

Lumber
Robertson McDonald Lbr. Co.

Maps
James Glen
Rock Map Co.

Meters
The Foxboro Co., Inc.

Motors
Southwest General Electric Co.

Oil Field Supplies
American Well & Pros. Co.
Atlas Supply Co.
Boykin Machinery & Sup. Co.
Bridgeport Machine Co.
Frick-Reid Supply Co.
Gulf Coast Mach. & Sup. Co.
Gardner Governor Co.
B. F. Goodrich Rubber Co.
Kansas City Struct. Steel Co.
The Kelly & Jones Co.
Lucey Manufacturing Corp.
Lee C. Moore & Co.
The National Supply Cos.
Norris Bros.
Oil Well Supply Co.
Oklahoma Tool & Supply Co.
Parkersburg Rig & Reel Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.
Southern Brass Mfg. Co.
Texas Supply Co.
United Iron Works., Inc.
Union Tool Co.
Western Supply Company

Oil Investments
Kosmos Petroleum Co.

Oil Producers
Standard Oil Co. of N. J.

Packers
The Guiberson Corporation
Layne & Bowler
Pelican Well Tool & Sup. Co.

Packing
B. F. Goodrich Rubber Co.
Lucey Manufacturing Corp.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.

Paints
Peden Iron & Steel Co.

Patents
Hardway & Cathey
Jesse R. Stone

Pipe Grips
Norris Bros.

GUIDE FOR PURCHASERS—Continued

Pipe
Atlas Supply Co.
A. M. Byers Co.
Frick-Reid Supply Co.
F. W. Heitmann Co.
Harrisburg Pipe & Pipe Bending Co.
Interstate Pipe Co.
Lucey Manufacturing Co.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Reading Iron Co.
Standard Seamless Tube Co.
Texas Supply Co.
Williamsport Wire Rope Co.

Pipe Machines
Williams Tool Corporation

Pipe Screwing Machines
Buckeye Traction Ditcher Co.

Pipe Threading Machines
Williams Tool Corporation

Pipe Threading
Williams Tool Corporation

Pipe Tongs
W. K. M. Company

Pipe Vises
J. H. Williams & Co.

Pipe Wrenches
Dunn Manufacturing Co.
The Guiberson Corporation
J. H. Williams & Co.

Portable Buildings
International Derrick & Equipment Co.

Portable Compressors
Gardner Governor Co.
Ingersoll-Rand Co.
Sullivan Machinery Co.

Portable Drilling Rigs
Bridgeport Machine Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
The National Supply Cos.

Pulleys
International Derrick & Equipment Co.
Lee C. Moore & Co.

Pulling Machines
Myrick Machine Co.
Thrift Hydraulic Casing Pulling Co.

Pumps
American Well & Pros. Co.
Atlas Supply Co.
Axelson Machine Co.
Gardner Governor Co.
Frick-Reid Supply Co.
Gaso Pump & Burner Mfg. Co.
The Goulds Mfg. Co.
Ingersoll-Rand Co.
Lucey Manufacturing Corp.
Norris Bros.
National Transit Pump & Machine Co.
The National Supply Cos.

Pumps
Oil Well Supply Co.
Pelican Well Tool & Sup. Co.
Southern Engine & Pump Co.
United Iron Works, Inc.

Pumping Powers
Kansas City Hay Press & Tractor Co.

Refined Products
Empire Refineries, Inc.
Gulf Refining Co.
Humble Oil & Refining Co.
Producers & Refiners Corp.
Sinclair Consolidated Co.
Standard Oil Co. of N. J.
Sunshine State Oil & Ref. Co.
The Texas Company
Union Petroleum Co.
Warner Petroleum Co.
White Oil Corporation

Recorders
Fort Worth Laboratories
The Foxboro Co., Inc.

Refinery Equipment
Atlas Supply Co.
Chicago Bridge & Iron Works
Frick-Reid Supply Co.
Gardner Governor Co.
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Petroleum Iron Works Co.
Phoenix Iron Works Co.
Titusville Iron Works
Tulsa Boiler & Sheet Iron Wks.
United Iron Works, Inc.
Wyatt Metal & Boiler Works

Rig Irons
Frick-Reid Supply Co.
Lucey Manufacturing Corp.
Lee C. Moore & Co.
The National Supply Cos.
Oil Well Supply Co.
Parkersburg Rig & Reel Co.

Rotary Rock Bits
Hughes Tool Co.

Rotary Fish Tail Bits
Pelican Well Tool & Sup. Co.

Rotary Slips
W. K. M. Company

Separators
DeLaval Separator Co.
Gardner Governor Co.
Trumble Gas Trap Co.

Strainers
Layne & Bowler Co.
J. H. McEvoy & Co.
Pelican Well Tool & Sup. Co.

Structural Steel
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Pennsylvania Tank Car Co.
United Iron Works, Inc.

Steel Derricks
International Derrick & Equipment Co.

Steel Crown Blocks
Gulf Coast Mach. & Sup. Co.
Lee C. Moore & Co.
Parkersburg Rig & Reel Co.
Superior TubeCo.
Texas Supply Co.

Steel Storage Tanks
Chicago Bridge & Iron Works
Kaw Boiler Works Co.
The Petroleum Iron Works Co.
Phoenix Iron Works Co.

Sucker Rods
Axelson Machine Co.
Dunn Manufacturing Co.
Norris Bros.
The National Supply Cos.

Stills
The Petroleum Iron Works Co.

Tank Cars
Pennsylvania Tank Car Co.

Tanks
American Tank Co.
Black, Sivalls & Bryson
The Brownell Co.
Chicago Bridge & Iron Works
Columbian Steel Tank Co.
Kansas City Struct. Steel Co.
Kaw Boiler Works Co.
Maloney Tank Co.
Petroleum Iron Works
Phoenix Iron Works
Pittsburgh-Des Moines Steel Company
Parkersburg Rig & Reel Co.
Tulsa Boiler & Sheet Iron Wks.
United Iron Works Co.
Wyatt Metal & Boiler Works
Youngstown Boiler & Tank Co.

Tret-O-Lite
W. S. Barnickel & Co.

Thermometers
Fort Worth Laboratories
The Foxboro Co., Inc.

Threading Machines
Williams Tool Corporation

Tongs
Bridgeport Machine Co.
Dunn Manufacturing Co.
Guiberson Corporation
Norris Bros.
Pelican Well Tool & Sup. Co.
Wilson & Willard Mfg. Co.
J. H. Williams & Co.

Tool Joints
American Well & Pros. Co.
Bridgeport Machine Co.
Hughes Tool Co.
The National Supply Cos.
Pelican Well Tool & Sup. Co.
W. K. M. Company

Tools (Fishing and Drilling)
Bridgeport Machine Co.
Frick-Reid Supply Co.
Hughes Tool Co.
Lucey Manufacturing Corp.
The National Supply Cos.
Oil Well Supply Co.
Peden Iron & Steel Co.
Pelican Well Tool & Sup. Co.
Sullivan Machinery Co.

Traveling Blocks
American Well & Pros. Co.
Boykin Machinery & Sup. Co.
Gulf Coast Machine & Sup. Co.

Tubing Catcher
Dunn Manufacturing Co.
Guiberson Corporation

Tubing
Interstate Pipe Co.
Reading Iron Co.
Standard Seamless Tube Co.

Under-reamers
American Well & Pros. Co.
Bridgeport Machine Co.
Western Supply Company
Wilson & Willard Mfg. Co.

Vacuum Pumps
Gardner Governor Co.
Ingersoll-Rand Co.
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The Charles N. Hough Mfg Co.

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Norris Bros.
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Wm. Powell Co.
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Reading Valve & Fittings Co.
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Water Gauges
F. W. Heitmann Co.

Wire Fence
Page Steel & Wire Co.

Wire Rope
Bridgeport Machine Co.
The National Supply Cos.
Williamsport Wire Rope Dist. Co.

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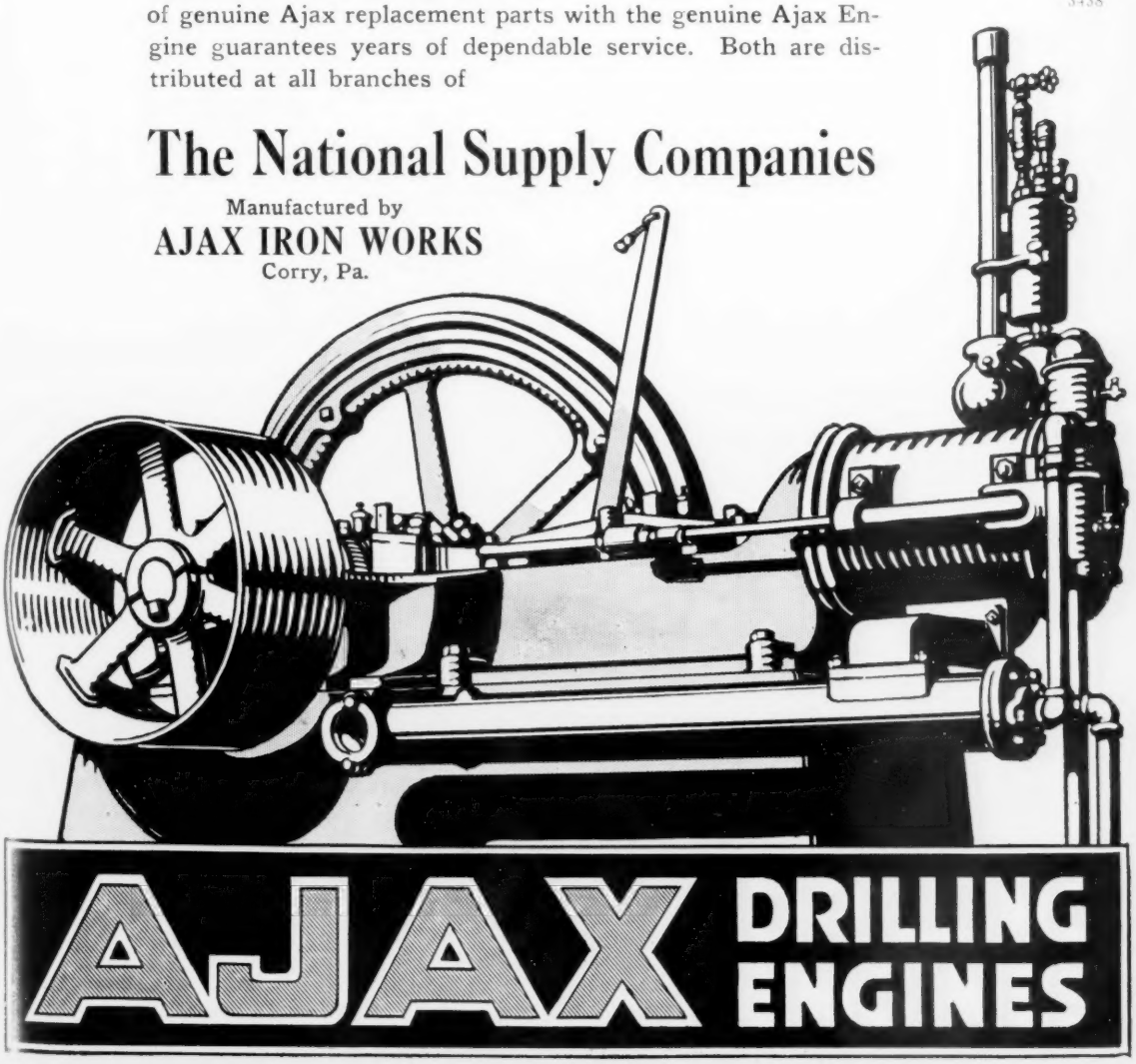
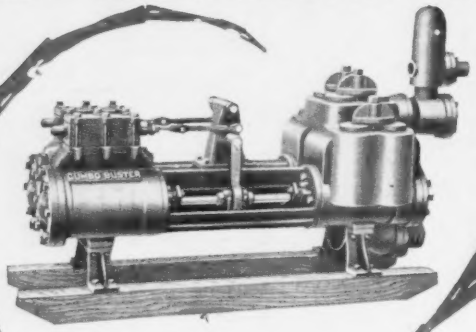
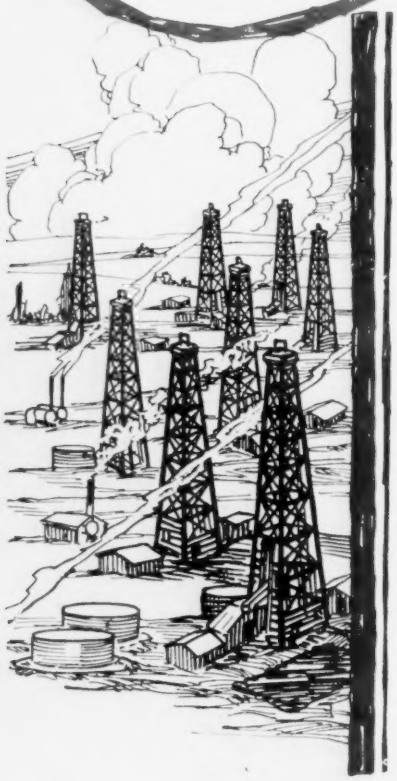


Gumbo Buster Pumps





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Tells Employes to Read Trade Journals

THE following paragraph from an editorial in "The Record," official magazine of the Pacific Oil Company Interests (Pacific Oil Company, Associated Oil Company, Amalgamated Oil Company, etc.) indicates the attitude of this major group toward the trade press:

"One of the best means of growth is by reading the trade and technical journals. Can you imagine an intelligent person working for promotion who neglects to familiarize himself with recent improvements in current conditions in his own industry? The average progressive business man of today tries to acquaint himself with advances in every line. He is eager to learn how the other fellow's success was achieved. He is on the alert to discover ways of doing his own work.

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